

## SEQUENCE LISTING

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## SeqID 122

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## SeqID 126

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## SeqID 127

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## SeqID 130

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## SeqID 131

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## SeqID 132

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## SeqID 134

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## SeqID 218

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## SeqID 219

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## SeqID 220

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## SeqID 221

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## SeqID 222

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## SeqID 223

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## SeqID 224

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## SeqID 225

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## SeqID 226

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## SeqID 227

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## SeqID 228

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## SeqID 229

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## SeqID 230

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## SeqID 231

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## SeqID 232

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## SeqID 233

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SPELD IKGELAKKYKISKDGLTWSFDLND DFKFSNGEPVTADDVKFTYDMLKADGKAWDLTFIKNVEVVGKNQVNIH  
LTEAHSTFTAQLTEIPIVPKKHYN DKYSNPIGSGPYMVKEYKAGEQAI FVRNPYWHGKKPYFKKWTWVLLDENTAL  
AALES GDVDMIYATPELASKVKVGT RL LD IASNDVRGLSLPYVKKGVVKNSPDGYPVGNDVTSDPAIRKALTIGLNR  
QKVLDTVLNGYGKPAYSIIDRTPFWNPKTAIKDNKVAKAKQLLT KAGWKEQADGSRKKGNLKA EFDLYYPTNDQLRA  
NLAVEVAEQAKALGITTIKLKASNWDEMATKSHDSALLYAGGRHHAQQFYESHYPSLAGKGWNTNITFYNNPTVTKYLD  
KAMTSPDL DKANKYWKLAQWDGKTGASTLGDLPNVWLVS LNHTYIIGDKRINVGKQGVHSHGH DWSLLTNIAEWTWDE  
SAK

## SeqID 234

MGQEPPIIEYQNTINKVYGENVAVEDINLKIYPGDFVCFIGTSGSGKTTLMRMVNHMLKPTNGTLLFKGKDISTINPLE  
LRRRIGYVIONIGLMPHMTIYENIVLPKLLKWESEAKRAKARELIKVELPEEYLD RYPSELGGQQQRIGVIRAL  
AADQDIILMDEPFGALDPITREGIQDLVKSLQEEMGKTIILVTHDMDEALKLATKIIVMDNGKMVGEGTPNDLLHHP  
ATSFEQMI GEERLLHAQADITPVKQIMLNNPV SITAEKTLTREATLMRQKRVD SLLVTDNGKLIGFIDLESLSKY  
KKDRLVSDILKHTDFYVMEDDLLRNTAERILKRGLKYAPVVDHNNLKGIVTRASLVDMLYDIIWGD TETEDQ

## SeqID 235

MKIDKKEFLALIASIILLIFASVTFFLFKDHGTTQMDTVESSVNHVSDSQLTEAQDMLDKFEKKPSEKLLKDELAL  
NKLSSSSKKEALQKRFFKAKDKYLKDEADKKATKDATDLVEILEQAPSEENVLKAEEAVNKLTVKESKEALQKRIDT  
VKTQYGLIGNQTPSSSVAETTEQGTANPASQDTSYVNQNVAPTYEQPQTNNTPVTPGVNNTVPTPGTGTAPATNGT  
GVAQ

## SeqID 236

MTKDLLLELGLLELPAYVVTPSEKQLGQKMVKFLEDHRLSFETVQTFSTPRRLAVRVKGLADQQTDLTDFKGPSK  
IALDAEGNFSKAAQGFVRGKGLSVDDIEFREVKGEEYVYTKHETGKSAIDVLASVTEVLTELTFFVNMHWANNSFE  
YIRPVHTLVLLDDQALELDFLDIHSGRISRGHRLFGSDTEILSASSYEDDLRQQFVIADAKERQQMIVDQIHAE  
KENISVEIDEDLLNEVLNLVRYPTAFLGSFDEKYLDPPEVLVTSMKNHQRYFVVRDRDGKLLPNFISVRNGNABHI  
ENVIKGNKVLVARLEDGEFFWQEDQKLNIALDVEKLGKQVTFHEKIGSLYEHMDRVKVISQYLAEKADLSDEEKLV  
LRAASIYKFDLLTGMVDEFEDELQIGMEKYALLAGEQPAVAAAIREHYMPTSADGELPETRVGAILALADKFDTLSS  
FFSVGLIPSGSNDPYALRRATQGIVRILEAFGWDIPLDELVTNLYGLSFASLDYANQKEVMAFISARIEKMIGSKVP  
KDIREAVLESPTYIVSLILEASQALVQKSKDAQYKVSIESLSRAFNLAEKVTHSVSDYSLFENNQEKALYQAILSL  
ELTEDMDHNDLKL FALSPIINDFFDNTMVMTDDEKMKQNRLLALNSLVAKARTVAAFNLLNTK

## SeqID 237

MTFDTIDQLAVNTVRTLSIDAIQAANS GHPLPMGAAPMAYVLWNKFLNVNPKTSRNWTRDRFVLSAGHGSALLY  
LLHLAGYDLSIDDLKQFRQWGSKTPGHPEVNHTDGVEATTGPLGQGIANAVGMAMAEHLAAKFNKP GFDLVDHYTY  
TLHGDCCLMEGVSQEAASLAGHLKLGKLVLLYDSNDISLDGPTSQSFTEDVKGRFESYGWQHILVKDGNLDEAIAAA  
IEAAKAETDKPTIIEVKTIIGFGAEKQGTSSVHGAPLGAEGITFAKKAYGWEYDPFTVPAEVVARFASDLQARGAKA  
EEAWNDFAKYEVEYPELAAEYKEAFAGQAETVELKAHDLGSSVASRVSSQQAIIQLSTQLPNLWGGSSADLSASNNT  
MVAETDFQASNYAGRNIWFGVREFAMAAAMNGIALHGGTRVYGGTFFVFSNYLLPAVRMAALQNLPTVYVMTHDSI  
AVGEDGPTHEPIEQLASVRSMPLNVIRPADGNETNAAWQRAVSETDRPTMLVLTRQNLVLEGTSELAQEGVNKGA  
YILSEAKGELDGI IATGSEVKLALD TDQKLESEGIHVRVVSMPAQNI FDEQEASYQEQLPSAVTKRLAIEAGSSF  
GWGKYVGLNGLT LTIDTWGASAPGNRI FEEYGFTVENAVSLYKEL

## SeqID 238

MTLQDQIIKELGVKPVINPSQIBRRSVEFLKDYLLKHSFLKTYVLGISGGQDSTLAGRLAQLAVEELRADTGENVYQF  
IAIRLPYGIQADEEDAQKALDFIKPDIALTINIKEAVDQVRALNAAGVEITDFNKGNIKARQRMISQYAVAGQYAG  
AVIGTDHAAENITGFFTKFGDGGADLLPLFRLNKSQKQLLAE LGADKALYEKIPTADLEENKPGIAD EIALGVTYQ  
EIDAYLEGKVVS DKSRIIENWWYKGQKRLHPITIFDDFWK

## SeqID 239

IKKESVIKLLKYAFGIIMGFIIAIVIGLLFAYYVSRSPKLTQALKSVNSSLVYDGNKLIADLGSEKRESVSAD  
SIPLNLVNATTSIEDKRFFKHRGVDIYRILGAAWNHLVSSNTQGGSTLDQQLIKLAYFSTNKSQDTLKRKSQEVWLA  
LQMERKYTKKEIILTFYINKVYMGNGNYGMRTTAKSYFGKDLKELSIAQLALLAGIPQAPTQYDYPKNPESAQTRRNT  
VLQOMYQDKNISKEYDQAVATPVTDGLKELKQKSTYPKYMDNYLKQVISEVKQKTGKDIFTAGLKVYTNINTDAQK  
QLYDIYNSDTYIAYPNNELQIASTIMDATNGKVIAQLGGRHQENENISFGTNQSVLTD RDWGSTMKPISAYAPAI DSG  
VYNSTGQSLNDSVYWPGTSTQLYDWDROYMGWMSMQTAIQSRNVP AVRALEAAGLDEAKSFLEKLGIIYYPENMYS  
NAISSNNSSSDAKYGASSEKMAAAYS AFANGGTYYPKYVYNKIEFS DGTNDTYAASGSRAMKET TAYMMTDMLKTVL  
TFGTGTKAAIPGVAQAGKTGTSNYTEDELAKIEATTGIYNSAVGTMAPDENFVGYSKYTMAIWTGYKNRLTPLYGS  
QLDIATEVYRAMMSYLTGGYSADWTMEGLYRSGSYLYINGTTTTGTYSYSSVYKNIYQNSGQSSQSSSSSTSSEKQKE  
DKNTANDANSSSPQVETPNNGNATTPNNSNQTVPGTGHGNGNGNNNTVPNGN

## SeqID 240

MLDLKRIRTFDFVAKKLATRGVDQETLTTLKELDIKRRELLIKAEEAKAQRNVASAAIAQAKRNKENADEQIAAMQ  
TLSADIKAIDAELADVDANLQSMVTVLENTPADDVPLGADEDENVEVRRWGT PREFDFETKAHWDLGESLGILDWER  
GAKVTSRFLFYKLGARLERAIYSFMLDEHAKGEYTEVI PPMVNHDSMFGTGQYPKFKEDTFELADSPFVLIPTA  
EVPLTNYRDEIIDGKELPIYFTAMSPSFRSEAGSAGRDTRGLIRLHQFHKVEMVKFAKPEESYQELEKMTANAENI  
LQKLNLPYRVITLCTGDMGFSAAKTYDLEWIPAQNTYREISSCSNTEDFQARRAQIRYRDEVDGKVRLLHTLNGSG  
LAVGRTVAAILENYQNEGGSVTIPEVLRPYMGNIDIIPKN

## SeqID 241

VTISNQELTLTPLRGKSGKAYIGTYPNGERVFVKYNTTPILPALAKEQIAPQLLWARRTSNGDMMSAQEWLDGRTLT  
KEDMGSKQIIHILLRLHKSRLPNQLQLGYKIENPYDLLMDWEKQTPIQIRENTYLSIVTELKRSLEPFRTEVAT  
IVHGDIKHSNWVITTSGLIYLVWDVRLTDRMYDVAYILSHYIPQKHWDWLSYGYKDNKVVWSKI IWYGQFSYL  
SQIICKFCDKRDMEHVNQEIYELRKFRLEIKKHNAS

## SeqID 242

MKISQYNKWSIRRLKVGAASVMIASGSIVALGQSHIVSADEMSQPKTTITAPTANTSTNVESSTDKALSKVTTMTES  
SEMPKMQNMAKVEKTSDBKPMVATSVRKMMATPTFVAMTKTTSVDEVKKSTDFAFKQTVDPVPAHYVNAAGNGPFLA  
GVNQTIPIYEAFFGGDGMLTRILILKSSEGAWSNDNGVDKNSPLLPLKGLTKGKYFYQVSLNGNTTGKEGQALLDQIKAN  
DKHSYQATIRVYGAADGKVDLKNMISQKMTINIPHITTDMEVKNLSKMAFKEKVDVPAKYVSAAKAKGPFLAGVNE  
TIPYEAFFGGDGMLTRILILKASEGAWSNDNGVDKNSPLLPLKDLTKGKYFYQVSLNGNTAGKKGQALLDQIKANGSHT  
YQATITTIYGTGDKGKVDMTILGQKTVMIHINVAKKDMNSTSMKKDKMTMPMKKEMTSSKINTGMMMSNNKMSANM  
QMSSQAKSNDKAGKMSMMSKNLPNTGETKQQNVGVGLGMLSLAFATGLTALGLKSKQR

## SeqID 243

MTHITFDYSKVLGQFVGEHELDYLPQVSAADAFLRQGTGPGSDFLGWMDLPENYDKEEFSRIQKAAEKIKSDSEVL  
VVGIGGSYLGAKAAIDFLNNHFANLQTAERKAPQILYAGNSISSTYLADLVEYVQDKEFSVNVISKSGTTTEPAI  
AFRVFKELLVKYQGEENKRIYATTDKVKGAVKVEADANNWETFVVPDNGGRFVSLTAVGLLPAAAGADITATM  
EGANAARKDLSSDKISENIAYQYAAVRNVLYRKYITEILANYEPSLQYFGEWWKQLAGESEKDKQGIYPTSANFS  
TDLHSLGQFIQEGYRNLFTFVVRVEKPRKNVTIPELTEDLDGLGYLQGGKDVDFVNKKATDGVLLAHTDGGVPMFVT  
LPTQDAYTLGYTIYFFELAIGLSGYLNSVNPFDQPGVEAYKRNMFALLGKPGFEELSALNARL

## SeqID 244

MKEKQTAGRRQLEEFAPFARYNDDILFGEVWAKEDHLTDKTRSIITISALISGGNLEQLEHHLQFAKQNGVTKEEI  
ADIITHLAFYVGWPKAWSAFNKAKEIWI

## SeqID 245

AWRALEDAQKSGKVKSIGVSNFLEKDLENILKNGHVKPAVNQILAHIGNTPFDLIDYCQSKGIQVEAYSPIAHGQAL  
KSDGIQKMAEKYGVSAQLCIQYLLQLNLIVLPKASSKEHLQSNLDFDFVISDEDMSSILKSLMFDYGEFSNFPVFS  
EK

## SeqID 246

MFRRSKNNSYDTSQTKQRFSSIKKFKFGAASVLIGLSFLGGVTQGNLNI FEESIVAASTIPGSAATLNTSITKNIQNG  
NAYIDLVDVKNGLIDPQNLIVLNPSSYSANYYIKQGAKYNSNPSEITTTGSATITFNILDETGNPHKKADGQIDIVS  
VNLTIYDSTALNRNIDEVINNANDPKWSDGSRDEVLTGLEKIKKIDNNPKTQIDIDNKINEVNEIEKLLVVSPLDK  
IKYSPEAKHRTVEQHAELDAKDSIANTDELPSNSTYNWKNHGPDTSTSGEKDGI VEHYPDGTVDVNVKVTVTSTK  
KTDNTAPTTLTPTPEQQTQVVDIEDITFTVTAEDENEVELGLDDLKAKYENDIIGARVKIKYLTKEPNKKVMEVTIMKA  
TLADKGAITFTAKDKAGNQAEPKVTINVLPPDKIKYSPEAKHRTVEQHAELDAKDSIANTDELPSNSTYNWKNHGHK  
PDTSTSGEKDGI VEHYPDGTVDVNVKVTVTSTKTDNTAPTTLTPTPEQQTQVVDIEDITFTVTAEDENEVELGLDDL  
KAKYENDIIGARVKIKYLTKEPNKKVMEVTIMKATLADKGAITFTAKDKAGNQAEPKVTINVLPPDKIKYSPEAKH  
RTVEQHAELDAKDSIANTDELPSNSTYNWKNHGPDTSTPGEKNAVVVVTYPDKSTDEVPVKVTVDPRDPAEKNDP  
AGKDQTVKVGEPDPPTKSLEAVPAGSTVAYKEPVDTKTPGEKNAIVVVVTYPDKSTDEVPVKVTVDPRDPAEKNDP  
GKDQTVKVGEPDPPTKSLEAVPAGSTVAYKEPVDTKTPGEKNAVVVVTYPDKSTDEVPVKVTVDPRDPAEKNDP  
KDQTVKVGEPDPPTKSLEAVPAGSTVAYKEPVDTKTPGEKNAVVVVTYPDKSTDEVPVKVTVDPRDPAEKNDP  
DQTVKVGEPDPPTKSLEAVPAGSTVAYKEPVDTKTPGEKNAVVVVTYPDKSTDEVPVKVTVDPRDPAEKNDP  
TTVPQGTPI SDEEITGLVKIPEGSNGVPKVGDRPNTDVPDGYKVTVEVTYPDGTQDVTAVTVHVT PKPVPDKDKYD  
PTGKSQQVNGKGNLKPATGESATPFFNVAALTISSVGLLSVSKKKED

## SeqID 247

MQILEDYDGRALPKLETDRILRQRTVGDVPAMFDYVCLLEEVAYPAGLSPIASLEDEYDYFENRYQNLEKAKLPSC  
YGITVKGSDRIIGSCAFNHRREDDVFEIGYLLHPDYWGHGYMTEAVAALIEVGFTLLNLHKIEIRCYDYNKQSQRVA  
EKLGFTEATIRDRKDNQGNRCVNLIIYGLLRSEWE

## SeqID 248

MSKELSPKYNPAEVEEGRYQTWLDQDVFKPSGDTEAKPYSIVIPPPNVTGKLHLGHAWDTTLQDIIIRQKRMQGFDT  
LWLPGMDHAGIATQAKVEERLREQGISRYDLGREKFLDKVWEWKDEYAATIKSQWGMGLSVSDYSRERFTLDEGLSK  
AVRKVFVDLYNKGWIYRGEFIINWDPAARTALSDIEVIHKDVEGAFYHMNYMLEDGSRALEVATTRPETMFGDVAVA  
VNPEDPRIYKDLIGQNVILPIINKPIPIIADHADPEFGTGVTTPAHPDNDFAVGQRHNLQVNVNMDDGTMNELA  
DEFNGMDRFEARKAVVAKLESGLNLVKIEKMTSHVGHSERTGVVVEPRLSTQWFKMDQLAKNAIANQDTEKVEFY  
PPRFNDTFMSWMENVHDWVISRQLWVGHIIPAWYNVNGEMYVGEDAPEGDGWTQDQEDVLDTWFSALWPFSTMGWPD  
TEAADFKRYFPSTLTVTGYDIIFFVWSRMIFQSLEFTGRQPFNSVLHGLIRDEEGRKMSKSLGNGIDPMDVIEKYG  
ADALRWFLSNGSAPQDVRFSYEKMDASWNFINKIWNISRYILMNEGLTLDQARENVEKVVNSQVGNVTDRLWILHN  
LNETVGKVTFESFDKFEFGVAGHILYNFIWEEFANVVELTKEVLYSDNEDEKVVTRSVLLYTLTDQILRLHPIMPV  
TEEIFGQYAEBSIVLASYPQVNATFENQTAHKGWESLKDILRSVRNSRAEVNAPSKPITILVKTSDSELESFFKDN  
SNYIKRFTNPTELEISSAITAPELAMTSIITGAEIFLPLADLLNVEEELARLEKELAKWQKELNMVGKLSNERFVA  
NAKPEVVQKEKDKQTDYQTKYDATIARIEEMKKNND

## SeqID 249

MVEPIISIQGLHKSFGKNEVLKGDIDLDIHQGEVVVIIGPSGSGKSTFLRTMNLLEVPTKGTVTTFEGIDITDKNDIF  
KMREKMGVMVFQQFNLFPNMTVLENITLSPIKTKGLSKLDAQTKAYELLEKVKLEKANAYPASLSGGQQORAIARG  
LAMNPDVLLFDEPTSLADPEMVGVLTVMQDLAKSGMTMVIVTHEMGFAREVADRVI FMDAGIIVEQGTPEVFEQT  
KEIRTRDFLSKVL

## SeqID 250

MNYKEIYQEWLENDLSLGDIDKSDLEAIKGDESEIQDRFYKTLFPGTAGLRGKLGAGTNRMNTYMGKAAQALANTII  
DHGPEAIARGIAVSVDVRYQSKFAELTCSIMAANGIKSYIYKGRPTMCSYAIRALGCVSGVMVTASHNPQAYNG  
YKAYWKEGSQLDDIADQIANHMDAITDYQQIRQIPFEEALASGLASYIDESIEEAYKKEVLGLTINDTNIDKSVRV  
VYTPPLNGVGNLPVREVLRRRGFFENVYVVPQEMDPDPFTTVGYPNPEVPKAFAYSESLSGKSVADILLATDPDCDRV  
ALEVKDSKGEYIFLNGNKIGALLSYIIFSQRALGNLPHHPVLKSI VTGDL SKVIADKYNIE TVETLTGFKNICGK  
ANEYLDISKDKTYLFGYEESIGFCYGT FVRDKDAVSASMMVVENTAYYKERGQTLDDVLQTIYDEF GYYNERQFSLEL  
EGAEQGQERISRIMEDFRQDPILQVGEMRLENSIDFKDGYKDFPKQNCCLKYYFNEGSWYALRPSGTEPKIKCYLYTIG  
CTEADSLSKLNAIESACRAKMNSTK

## SeqID 251

MYREITAVEHDRFVSESNOQTNLLQSSNWPVKVKNWGSQLLGFFDGETQIASASILIKSLPLGFSMLYIPRGPIMDYS  
NLDIVTKVLKDLKAFGKKQORALFIKCDPLIYLMVNKADFENSPDEKEGLAIDHLQORAGADWTGRTTDLAHTIQPR  
FQANLYANQFGLDKMSKTRQAIARTSKNKGVDIQFGSHELLEDFAELMKKTEDRKGINLRGIDYQKLLDTPNNNSY  
ITMASLDVAKRLEKIEKECQIAQSERIKSLELNREKKVKQHQGTIDRLNKEIDFLKEAQKAYDRDI IPLAATLTLEF  
GNTSENIYAGMDDYFKSYSAPIYTWFTETAQRAFERGNIWQNMGGIENDLSGGLYHFKSKFEP IIEFIFGEFNIPVNR  
LLYKASNYVYALRKKRNS

## SeqID 252

MACTTILVGKKASYDGMTIARTEDSVNGDFTPKKLKVMTSKDQPRHYKSVLSNFEVDLPDNPPLPYTSVPDALGKDG  
IWGEAGINSKNVAMSATETITTSNRVLGADPLVSDGIGEEDILTTLVLPYIQSAREGVERLGAILLEKYGTYESNGIAF  
SDTEEIWWLETIGGHHWIARRVPDDVYVTNPNQLGIDHFEFNCCDDYMCSSDLKEFIEQYHLDLTYSNEHFNPRYAF  
GSQRDKDRHYNTPRSWAMQRFNLPETEQDPRSLFIPWCQKPYRKITVEDIKYVLSHDYQDSVYDPYGPBGDAVSRRR  
FRSVGINRTSQTSLQLRPNKSLETTGVQWLSYGSMPFATMVPLFTQVETVPNYFSNTTKDASTDNFYWTNRLIAAL  
ADPHFYQHEADIESYIERTMAQGHAHINGVDREVAENKEIDFQKQNEMSDYIQKESQELLNRILFDASNLMTNRFS  
MGD

## SeqID 253

MRKKFLLLLMSFVAMFAAWQLVQVKQVWADSKLKVVTTFFYPVYEFTKNVVGDKADVSMLIKAGTEPHDFEPSTKNIAA  
IQDSNAFVYMDNMTWAPKVAKS VKSKKVTTIKGTGDMLLTKGVEEEGEEHGHGHEGHHHELDPHVWLSPERAIS  
VVENIRNKFVKAYPKDAASFNKNADAYIAKLKELDKYKNGLSNAKQKS FVTQHAAFGYMA LDYGLNQVP IAGLTPD  
AEPSSSKRLGELAKYIKKYNINYIYFEENASNKVAKTLADEVGVKTA VLSPLEGLSKKEMAAGEDYFSVMRRNLKVLK  
KT TDVAGKEVAPEEDKTKTVETGYFKTKDVKDRKLT DYSGNWQSVYPLLQDGTLDPVWDYKAKSKKDMTAAEYKYY  
TAGYKTDVESIKIDGKKHQMTFVRNGKSQFTTYKYAGYKILTYKKGNRGVRYLFEAKEKDAGQFKYIQFSDHGKIPN  
KAEHFHIFWGSSESQEKLFEEEMENWPTYFPAKMSGREVAQDLMSH

## SeqID 254

MKLSKLLFSAAVLTMVAGSTVEPVAQFATGMSIVRAAEVSQERPAKTTVNIYKLOADSYKSEITSNNGGIENKDG  
ISNYAKLGDNVKGLQGVQFKRYKVKTDISVDELKLLTTEAADA KVGTTILEEGVSLPQKTNAQGLVVDALDSKSNVR  
YLYVEDLKNPSNITKAYAVPFVLELFPVANSTGTGFLSEINIYKNNVVTDEPKTDKDVKKLGQDDAGYTI GEEFKWF  
LKSTIPANLGDYKFEITDKFADGLTYKSVGKIKIGSKTLNRDEHYTIDEPTVDNQNTLKITFKPEKFKETIAELLKG  
MTLVKNQDALDKATANTDDAAFL EIPVASTINEKAVLGKAIENTFELQYDHTPDKADNP KPSNPPRKPEVHTGGKRF  
VKKDS TETQTLGGARFDLLASDGTAVKWT DALIKANTNKNYIAGEAVTGQPIKLSHTDGT FEIKGLAYAVDANAEG  
TAVTYK LKETKAPEGYVIPDKEL EFTVSQTSYNTKPTDITVDSADATPDTIKNNKRPSIPNTGGIGTAIFVAIGAAV  
MAFAVKGMKRRTKDN

## SeqID 255

MKKRQKIWRGLSVTLLILSQIPFGILVQGETQDTNQALGKVIVKKTGDNATPLGKATFVLKNDNDKSETSHETVEGS  
GEATFENIKPGDYTLREETAPIGYKKTDKTWKVKVADNGATII EGMDADKAERKEVLNAQYPKSAIYEDTKENYPL  
VNVEGSKVGEQYKALNPINGKDRREIAEGWLSKKITGVNDLDKNKYKIELTVEGKTTVETKELNQPLDVVLLDNS  
NSMNNERANNSQRALKAGRAVEKLIDKITSNKNRVALVTYASTIFDGTEATVSKGVADQNGKALNDSVSWDYHKT  
FTATTHNYSYLNLTNDANEVNILKSRI PKEAEHINGDRTLYQFGATFTQKALMKANEI LETOSSNARKKLI FHVTDG  
VPTMSYAINFNPIYSTSYQNQFNSFLNKIPDRSGIQLQEDFIINGDDYQIVKGDGESFKLFS DRKVPVTGGTQAAAYR  
VPQNQLSVMSNEGYIYLYWRDYNWVYPFDPKTKKVSATKQIKTHGEPTTLYFNGNIRPKGYDIFTVIGV  
GDPGATPLEAEKFMQSISSTENYTNVDDTNKIYDELNKYFKTIVEEKHSIVDGNVTDPMGEMIEFQLKNGQSFTHD  
DYVLVGNDGSQLKNGVALGGPNSDGGILKDVTVTYDKTSQTIKINHLNLGSGQKVVLTYDVRKDNYSINKFYNTNN  
RTTILSPKSEKEPNTIRDFPIPKIRDVREFFVLTI SNQKKMGVEFEIKVNKDKHSESLGAKPQLQIEKDFSGYKQFV  
PEGSDVTTKNDGKIYFKALQDGNKLYEISSPDGYIEVKTKPVVFTTIQNGEVTNLKADPNANKNQIGYLEGNGKHL  
ITNTPKRPPGVFPKTTGGIGTIVYILVGSTFMILTICSFRRKQL



## SeqID 256

GAKKAGWTEYARMLLEVREQVDHVMIPKINQDLPIYAGPEEDNLQRGVGHLEGISLPIGGASTHAVLSGQRMGAARL  
FADLDKMKKGDYFYVTNLKETLAYQVDRIMVIEPSQLDAVSIIEEDKDYVTLTCTPYMGSLSTVMGDLSTLTRENQL  
GSLSFWMFKAMRILLKFLKLRKPKACRLMSLISLVASNLALERDS

## SeqID 257

MSDVVEKQTAKSFIMNVNLGLALGTIVLIPGAILGELMKALLPMWSGFATLIAATAVATSMGLVIGIMVGLNFKF  
NPIQSASLGLAVMFAGGAATFLKGAIMLKGTGDIINMGITAALGVLLIQFLSDKTKSFTLIVIPTVTLTLLVGGVGHV  
LLPYVKMITTMIGOGIASLLGLQPVLSILIAMIFCFLIVSPITTVGIALAISLSGIGSGAANLIGICAASFGLCMAG  
WSVNSKGTALAHVLGSPKISMANVLAKPKIMLPMISSAAILGILGALFNIQGTASAGFGISGLIGIPINALNLAKGG  
WSVMNMLLIIFVAAPIILNFIFNYLFIKVLKIIDPMDYKLDI

## SeqID 258

MARPLVEQTDARLLHLILEREYPVGAKL PNEYELAEDLDVGRSTIREAVRSIATRNLILEVRQSGSTYISSKKGVSSED  
PLGFSLIKDTDRITSDLFELRLILLEPRIAELVAYRITDDQLQLEKLVGDIEDAVHAGDPKHLLLDVEFHSMKAKYS  
GNIAMDSLPLVINQSIHLINANYTNRMKSDSLEAHREIIKAIREKNPVAHADAMLHIMSVRRSALKA

## SeqID 259

MIKKNKVFLGVLLVLVVLGGGVLFYQSQFQKTTNQALAIAYKDAKVAKKDVIHQKIDKEFENFRGSYEIEFNTKSA  
EYSYHVDAKTGQILERDMNNGFSKSTSQSSSSSSQKSHKISQEEAKKIAFKDANIEESEVSNLKIKEEIEENGKSVY  
DIDFVDLKNKNEVDYQIDAETGKIIERSRDMND

## SeqID 260

LNRRKKRYRLTVKKQNASIPRRNLNLLFFIIVLLFTVLILRLLEQMIGQSQSFYMKKLTALTSTYTVKESKARGQIFDAKG  
VVLVENDERPTVAFSRCNNISSQSIKELANKLSHYITL TEVASSDRAKRDYYLADKANYKKVVESLPDSKRYDKFGN  
HLAESTVYANAVAAVPVSAINYSEDELKVVALFNQMNATPTFGSVKLSTGELSDDQIKKLADAKKELLGISVTSNWH  
RRKGTSLSDILGTISTEKAGLPREEVKKYLKKGYSLNDRVGTSYLEKQYEDDLQGIQIRKVVVNKKGKVSDNIT  
QEGKSGRNKLKTIDLNYQNKVESILKQYYGSELSSGRASFSEGMAYAVAI EPSTGKVLAMAGLKNHGNLVDDSLGTI  
AKNFTPGSVVKGATLSSGWENKVLRGNEVLVDQELANIRSWFTRGLTPISAAQALEYSSNTYMVQVALRLMGQDYNT  
GDALTRDGYQEAMAKLRKTYGEYGLGVSTGLDLPESEGYVPGKYSGLTTLMESFGQYDAYTPMQLGQYISTIANNGN  
RLAPHVVSIDIYEGNDSNKFAQLVRSITPKTLNKIAISDQELAIQEGFYNNVNSGSGYATGTSMRGNVTTISGKTGT  
AETFAKNVNGQTVSTYNLNAIAYDTNRKIAVAVMYPHVTTDTTKSHQLVARDMIDQYISQFTGQ

## SeqID 261

MTVFPHKHLWGGAVAANQVEGAFRTDGKGLSVQDVL PNGGLGDF TAKPTPDNLKLEAIDFYHNYKNDIKLFAEMGFK  
VFRTSIAWSRIFPNGGDSAPNEAGLQFYDNLFDLLEKYNIEPLVTL SHYETPLHLAKTYNGWADRRLIAFFEKFAQT  
VMERYKDKVKYWLTFNEVNSILHMPFTSGAIMTDSQLSPQELYQAIHHELVASARVTKLGRSINPNFKIGCMILAM  
PAYPMTSDPRDVLAAQRFQHNLLFSDIHVRGKYPTYIQSYFKNNGIKIKFEEGDEEVLQNTVDFLSFSYMSVTQ  
AYDFENYQSGQGNILGGLTNPHLTTSEWGWQIDPIGLRLVLNQYYERYQIPLFIVENGLGAKDQLIETLDGDYTVED  
DYRIDYMNQHLVQAKAIEDGVEIMGYTSWGCIDCVSMSTAQLSKRYGLIYVDRNDDGTGSLQRYKKKSFGWYQKVI  
KTNGQSLFEHHR

## SeqID 262

MATFQIKBKMFSLGGKFTITDQTLGPCYHVBGSLFPLPKTFKVFD BEGHLISQIEKKVLSFLPKFNVTLANGNHFTI  
KKDFSFLKPHYTIEDLMEVKGNFWDIDFQLLKDQNVIANISQQWFRMTSTYQVEVYNETYNDLTISLVIAIDYVKE  
LEKNASN

## SeqID 263

MKKITTLILASSLLLVATTSVKADDNFEMPTRYVKMSEKSKAFYQRLQEKQKAHTTVKTFNNSEIRHQLPLKQEA  
RNDIYNLGLISQESKGFIRIDNAYSLENVSDIVNEAQALYKRYNDFEKIKSTRDKVQVLLASHQDNTDLKNFYA  
ELDDMYEHVYLNESRVEAINRNIQYN

## SeqID 264

MKLKFFEDLLAKLEYRPIQVFMRFQSAEMDL SAI AVAYLLVTAFLPLLVIAANIFPYFHINVSLLSLMQKNLPK  
NIYEPASRLAVDAFSKPSGTGILGFASLTAFWTMSKSLTSLQKAINKAYGVDQHRDFVISRLVGVTGLIILFLTLTFV  
LIFSTFSKPVQLIIVNMYDLGDTLTAWLLNLAQFVTLTIFLIGIGILYFILPNARIRKVRYPVPGTLFSTFVIGFFS  
NLISQYVLNRVEKMVDIKTFGSVVFILMLWFI FLAHIMILGAILNASVQELATGKIESRRGDIMSLIQKSKEK

## SeqID 265

MKLLYTDINHDMTEILVNQAAHAAEAGWRIFYIAPNSLSFEKERAVLENLPQEASFAITITRFAQLARYFTLNQPNQ  
KESLNDIGLAMI FYRALASFEDGQLKVFGRLLKQDASFISQLVDLYKELQTANLSILDLYLHSPKEFEDLLAIFLVV  
SDLLREGEYDNQSKIAFFTEQVRSGQLDVLKNTILIVDGFTFRFSAEEELIKSLSSRCQEIIGAYASQKAYKANF  
TNGNIYSAGVDFLRYLATTFTQKPEFILSKWESKSGFEMISKNI EGKHDFTNSSHILDDTAKDCITIWECINQKDEV  
EHVARAIRQKLYQGYRYKDILVLLGDVDSYKLQLSKIFEQYDIPYYFGKAETMAAHPLVHFMDSLSRIRKRYRFAED  
VLNLFKGTGIYGEISQDDLDFEAYISYADIKGPKKFTDFVVGAKKFDLGRNLNTIRQSLAPLESFVKTKKQDGIKT

LNQFMFFLTQVGLSDNLSRLVQMSSENEQEKHQEVWKTFTDILEQFQTI FGQEKLNLD EFLSLNLSGMMQAEYRMVP  
 ATVDVVTVKSYDLVEPHSNQFVYALGMTQSHFPKIAQNKSLISDIERQLINDANDTDGHFDIMTRENKKNHFAALS  
 LFNAAKQALVLTIPQLLNESEDQMSPYLIELRDIGVPPFNHKGQSLKEEADNIGNYKALLSRVVDLYRSAIDKEMTK  
 EEQTFWSVAVRYLRRQLTSKGIEIPIITDSLDTVTVSSDVMTRRFPEDDPLKLSALTTFFYNNQYKYFLQYVLGLE  
 EQDSIHPDMRHGTYLHRVFEILMKNQGI ESFEELNSAINKTNQEDVFKSLYSEDAESRYSLEILEDIARATATIL  
 RQDSQMTVESEEEERFELMIDNTIKINGIIDRIDRLSDGSLGVVDYKSSAQKFDIQKFYNGLSLPOLVTYIDAI SRDKE  
 VEQKPPIFGAMYLHMQEPKQDLSKIKNLDLVTKNHQALTYKGLFSEAEKEFLANGKYHLKDSLYSEAEIAILQAHN  
 QLLYKKASETIKSGKFLINPYTEDAKTVGDQFKSITGFEADRHMARARALYKLP AKEKRQGFLTLMQQEEENDL

## SeqID 266

MSETKVMALREAINVAMSEEMRKDEKVFLMGEDVG VYGGDFGTSVGMLEEFGA KRVRDTPISEAAIAGSAIGAAQTG  
 LRPIVDLTFMDFVTIAMDAIVNQAKTNYMFGGGLSTPVTFRVASGSGIGSAAQHSQSLEAWLTHIPGLKVVP GTV  
 NESKALLKSSILDNNPVI FLEPKALYGKKEEVMNDPDFYIPLGKGDIKREGTDLTIVSYGRMLERVMQAAEEVAEEG  
 INVEVVDPRTLIPLDKELIIDS VKKTGKLILVNDAYKTGGFTGEIATMVAESEA FDYLDHPIVRLASEDVPVPYSRV  
 LEQGILPDVAKIKDAIYKVVNKGK

## SeqID 267

MAFDVIMPKLGVDMQEGEILEWKKNEGDTVNEGDLLEIMSDKTNMBIEAEDTGVL LKIVHQAGDVVPVTEVIAYIG  
 BEGEEVGTSSPSADATITAEDGQSVSGPAAPSQETVAAATPKEELADEYDIVVVG GGPAGYAAIRGAQLGGKIAI  
 VEKTEFGGTCLNVGCIPTKTYLKNAEILDGLKVAAGRGINLASTNYAIDMDKTVAFKNSVVKLT TGGVRGLLKANKV  
 EIFNGLGQVNPDKSVVIGDKVIKGRNVVLATGSKVSRINIPGIESPLVLTSDDILDLREIPKSLAVMGGGVVGI ELG  
 LVWASYGVDVTVIEMADRIIPAMDKEVSLELOKILAKKGKIKTSVGVS EIVEANNQLTLKLNNGBEVVADKALLSI  
 GRVPQMNGLLENLEPELEMERGRIKVNAYQETSIPGIYAPGDVNGTRMLAHAA YRMGEVAAENALGGNKRKAHLDFTP  
 AAVYTHPEVAMVGMTEEQAREQYGDILVGKNSFTGNGRAIASNEAHGFVKVIAEPKYKEILGVHII GPAAAE LINEA  
 STIMENELTVYDVAQSIHGHTFSEVMYEAFLDVLGEAIHNPPKRK

## SeqID 268

MGKYFGTDGVRGEANVELTPELAFKLGRFGGYVLSQHETDRPRVFVARDTRISGEMLESALIAGLLSVGIEVYKLG V  
 LATPGVSYLV RTEKASAGVMISASHNPALDNGIKFFGSDGFKLDDRELEIEAL L DAKEDTLPRPSAQQGLGTLVDYP  
 EGLRKYEFMBESTGIDLEGMKVALDTANGAATASARNIFLDLNADISVIGDQPDGLNINDGVGSTHPEQLQSLVREN  
 GSDIGLAFDGDSDRLIAVDENGEIVDGDKIMFIIGKYLSDKGQLAONTIVTTVM SNLGFHKALDREGIHKAITAVGD  
 RYVVEEMRKSGYNLGGEQSGHVIIMDYNTTGDGQLTAIQLTKVMKETGKKLSELASEVTIYPQKLVNIRVENNMKDK  
 AMEVPAAIEIIAKMEEEMDGNRILVRPSCTEPLLRVMAEAPTNEAVDYYVDTIADVVRTEIGLD

## SeqID 269

MKGQKIIALAGLVLSCHFALTACHTQEHNKSHHIKTKQVAKKKANKKKVSVKESHKKRKG VAGVDFPTDDGFLLTKD  
 SKILSHPD SGIVVAHGNHSHFI FYSDLKGSKFSYLIIPNANA KTNKKQAVRNFKAGAVAVNTLNDGYVFNPA DIVSED  
 ANGYVVRHGDH FHYIPKASLSQQKQVQASRAVSR LGNQNNSHYRVNSSKIAGLHHPTSDGFLFNGQGIKGTPTTGIL  
 VEHNHLLHFISFADLRKGGWGS IADRYQPQKKVDSKKQSPSSKKPRTENTLPKD IKDKLAYLARELHLDISRI RVLK  
 TLNGEIGFEYPHDDHTHVIMAKDIDLSKPIPNPHHDDDEHHKGGHHHDESDHKHEEHEHTKSNKLSDEDDQKKLIYLA E  
 KLGLNPNQIEVLTS EDGSIIFKYPHDDHSHTIASKDIEIGKPIPDGHHDHSHAKDKVGMATLQKIGFDD EIIQDILH  
 ADAPTPFPSPNETNPEKMRQWLATVTKINIGQRTNPFQRFGLSLMPNIEVLGIGFTPIINDMTPVLQFKKLQ LWMNT  
 GITDYSFLDKMPLLEGLDISQNGIKDLSFLT KYQLSLIAAANNGITSLKPLAELPNLQFLVL SHNNISDLTPLSNL  
 TKLOELHLDHNNVNKLSALS GKKDLKVLDSLNNKSADLSTLKTTSLETLLLNETNTSNLSFLKQNP KVSNL TINNAK  
 LASLDGIEESDEIVKVEAEGNQIKSLVLKNKQGS LKFLNVTNNQLTSLEGVNNTSLETLSVSKNKLES LDIKTPNK  
 TVTNLDFSHNNVPTSQ LKLNKNIPEAVAKNFP AVVEGSMVGNGLAEKAAMASKEDKQVSDNTNHQKNTEKSAQAN  
 ADSKKENPKTHDEHHDHEETDHAHVGH HHH

## SeqID 270

MNKRVKIVATLGP AVEFRGGKKFGESGYWGESLDVEASA EKIAQLIKEGANVFRFNF SHGDHAEQ GARMATVRKAEE  
 IAGQKVGFLLDTKGPEIRTEL FEDGSD FHSYTTGT KL RVATKQGIKSTPEVIALNVAGGLDIFDDVEVGKQILVDDG  
 KLGLTVFAKDKDTREFEVVVENDGLIGKQGVNIPYTKIPF PALAERDNADIRFGLEQGLNFIAISFVRTAKDVNEV  
 RAICBETGNHGVKLF AKIENQQGIDNIDEIIRAADGIMIARGDMGIEVPFEMVPVYQKMIITKVNAAGKAVITATNM  
 LETMIDKPRATRS EVSDVFNAVIDGTDATMLSGESANGKYPVESVRTMATIDKNAQ TLLNEYGRLDSSAFPRNNKTD  
 VIASAVKDATHSMDIKLVTTITETGNTARAI SKFRPDADILAVTFDEKQVRS LMINWGVIPVLADKPASTDDMF EVA  
 ERVALEAGLVESGDNIVIVAGVPVGTG GTNTMRVRTVK

## SeqID 271

MTATKQHKKVILVGDGAVGSSYAFALVNQ GIAQELGII EIPALFDKAVGDAEDLSHALAFTSPKKIYAATYADCADA  
 DLVVITAGAPQKPGETRDLVLGKNLAINKSIVTQVVESGFNGIFLVAANPVDVLTYSTWKFSGF PKERVIGSGTSLD  
 SARFRQALADKIGVDARSVHAYIMGEHGDSEFAVWSHANVAGVQLEQWLQENRDIDEQGLVDLFI SVRDAAYS IINK  
 KGATYYGIAVALARITKAILDDENAVLPLSVYQEGQYGDVKDVF IGQPAIVGAHGIVRPVNIPLNDAELQKMQASAE  
 QLKDIIDEAWKNPEFQEQASKN

## SeqID 272

MODKNLVDVNLTSSEMTSFIDYAMSVIVARALPDVRDGLKPFVHRRILYGMNELGVTPDKPHKKSARITGDVMGKYHP  
HGDSSIIYAMVRMAQWWSYRHMVLVDGHGNFGSMDGDGAAAQRYTEARMSKIALEMLRDINKNTVDFQDNYDGSEREP  
LVLPARFPNLLVNGATGIAVGMATNIPPHNLGESIDAVKLVMDNPDVTTRELMEVIPGPDFPTGALVMGRSGIHRAY  
ETGKGSIVLRSRTEIETTSNGKERIVVTEFFPYGVNKTKVHEHIVRLAQEKRIEGITAVRDESSREGVRFVIEVRDA  
SANVILNNLFLKLTSLQTNFSFNMLAIEKGVPKILSLRQIIDNYIEHQKEVIVRRTQFDKAKAEARAHILEGLLVALD  
HLDEVITIIIRNSETDTIAQAEMLSRFELSERQSQAILDMLRLRLTGLERDKIQSEYNDLLALADLADILAKPERVV  
TIIKEEMDEVKRYADARRTELMIGEVLSELEDEDLIEEDVLITLSNKGYIKRLAQDEFRAQKRGGRGIQGTGVNND  
DFVRELSTSTHDTVLFFTNLGRVYRLKAYEIPYGRGTAKGLPIVNLLKLDEGETIQTIIINARKEDVANKYFFFTTQ  
QGIVKRTSVSEFSNIRQNGLRINLKENDELINVLIDENEDVIIGTRTGYSVRFKVNAVNRMGRTATGVRGVNLR  
GDKVVGASRIVNGQEVLIITEKGYGKRTEASEYPTKGRGGKGIKTANITAKNGPLARLVTINGNEDIMVITDTGVII  
RTNVANISQTGRSTMGVKVMRLDQBAKIVTVALVEQEIEDKSNIEDTKE

## SeqID 273

MTIFDERELKERFTHENRVSFYEFVAKYDAQMVPVMKAKGYRCIHSMERTVVVTFGEFTIRRRRWQKGEHWVVPVDE  
KLGLKKNVRYSLFEMYQIASLATMMPYEKVIKVVQMMYCVITKPTVVKAVKISRELLKEKEAYRFFDEDIPVDKEP  
VDMIYLEGDMVMVKAEEGLDNRNVDSLHFVVTGSGQKVSNNRFLVQNKKEFVSLDNRQTRQKILDYLYNHFYIAPN  
TLLITNSDGGHGYTPYVFKETAKALKVKQHEHFWDYHVEKIKSFFKLYPVELMTGAFQSIKQHDKEKLRTVLDTT  
EALILMEEMEGFNQFKRKLNNFQYTKSAELRGFSRAGIGVMESQHRKITYRMKKRGMWYTIQGAETMSQLIVLSY  
EGQLRDLFFGSWREDYQKYQELENLASGKIKHEQNKINKRYDLQTLGRLRYGRHNL

## SeqID 274

MAYLSKLSLDLPSLMDADSEQIYIPKVLFEHNDFKGLTYKEILYSFLLNRLREPLDFIQGYDDNEDTYVHFKVED  
LCELLNQSKTTVISLKKRLAQYGLIEEVKAGSHQPNRIYLTDKLVPIKG

## SeqID 275

MTDNRFAQLKENFEKSGPKRRVPTSRPIAAQKAPESYNKKGRYPFSLHQDVRYDKLEALVAYHGAKSASDYLERLIV  
QWEKMQRKLNKEK

## SeqID 276

MFSWLEALYYTLIQLAKVNRLNALFLVSUVGYLCYQGKLVKRTIRNFFQLMKGFIGDRENIKKCIKNKKEALVHSW  
KHRQDIDWKSTGDKSKQLWNLMKRLATVAPSFLFLLGNVLFRLIYQLPFVKQDRKRFDKEMKPLLYFKNYRSFVF  
MGIGFSFIAFILTNFYFVTVLRAAIRFLYFSIMTLRDNSSQVVSFNVDSLLIQNLFNARVFIAPILAVPIFLIGLVVA  
WRSAAVNFEQYRDYNHNEEGDDRFATVKEIHQQYKKVPNKTTETYPGEGGVVPLHETRKNLTGLTLKSQMLWQNRTPS  
RYLTNAERILGLLSTPSGDYIYDDSTTNLITMGITRSGKGEAHIAPIIDINSRAEIQPSLIADPKGEHYQSSYKTM  
RRRGYDVNVLSFQNMWMSYNPLALALAAAKKGYEMTQTRVNAVAEAIYRKTGPGSGNGNAKYWEDTSSISLFNAI  
AMALMDRANETVRNGETDAWDTVTVRNIAKFLTDLGSEEVFVNDGFEIIVENPDKNQOVKKKSKITVYFDNLRKINQE  
QFSKFRDMADLNFRSSDFASEETKGNVFSMMMSGINLFLQDNIAKLTSKNSIDLESVGFPRRLSIKFRSSSNVAMRN  
EYTHKTAKVTITSQAVWGKTTKQVIHVDAAATLIDGEGYLTIVIEPQLPDQFLVTIDFNHNNNGSAIRHKTFFQFSA  
EKVYKKRGNVITLDDYTKKPVLDHIKVTVLNKQDDNLLQKEDIDLIYSDNPKVIYLVTPPNRTEYNSIVSLFLDQLF  
NANYELALSNGRKCVRNIRLHILDEFNTNIPAI PHMDTKISIGLGONILYLLWIQNLKQLVSEYGENTAETIRENC SLK  
VYIKSTAPATNEYFSKELGTRTITRRRRSSNILDEANPNVSIENPRQELLTPTQLSKLQEGEAVILRGVKGRDNAGR  
KITTDPIFLHEKTSLPYRMFLQEEFDQSMALADIPVESGHRDLDLQDIAGVAQSTFNKIIDWRMALTDMMRTNGKI  
PQLASRKQTIKALSQSQFTSPADLTQAVIAEVFDEEDDDDLFFVDDVM

## SeqID 277

MNSNTKGHGFRRKSKAYGLVCAIALAGAFTLATSQVSADQVTTQATTQTVTONQAEVTSTQLDKAVATAKKAHAV  
TTTPAVNHATTTDAQADLANQTQAVKDVTAKAQANTQAIKDATAENAKIDAENKARAERVAKENKEGQAAVDARNKA  
GQAAVDARNKAKQQAQDDQKAKIDAENKAESQVSQNLNAQNKAIDAENKDAQAKANATNAQLQKDYQAKLAETKSV  
EAYNAGVRQRNKDAQAKADATNAQLQKDYQAKLALYNQALKAKABADKQSINNVAFDIKAQAKGVDNAEYGNISMTA  
KTKPDGSGFEFNHDMIDGVKTIGYGKLTGKVNHHYVANKDGSVTAFAVDSVTLYKYEYRNVAQNAAVNQNVFRVLT KD  
GRPIFEKAHNGNKTFAETLNLKTLQLNLKYELKPHASSGNVEVFKIHDDWVHDTGHSALVSYVNNNDVAVPNVPIPERP  
TPPKPVKVTPEAEKPVPEKPVPEKLVPTPLKTYTPVKFIPREYKPEPITPETFTPEKFTPAQPKVKPHVSIPEKINY  
SVSVHPVLVPAANPSKAVIDEAGQSVNGKTVLPNATLDYVAKONFSQYKGIKASAEAIAGFAFVDQPNELAE LTV  
KSIKASNGDDVSSLLEMRHVL SKDTLDQKLQSLIKEAGISPVGEFYMWTAKDPQAFYKAYVQKGLDITYNLSFKIKA  
NFTKGQIKNGVAQIDFGNGYTGNIIVNDVTVPEVHKDILDKEDGKSINNSTVKLGDEVITYKLEGWVVPANRGYDLFE  
YKFVDQLQHTHDLYLRDKVVAKVVDVTLKDGTVIKKGTNLGEYETETVYNKTTGHYELAFKKEFLAKVSRESEFGADDF  
IVVKRIKAGDVYNTADLYVNGYKVKSEAVVTHTEKSKPVEPQKATPKAPAKGLPSTGEASMTPLTAIGAITLSALG  
LAGFKKRQK

## SeqID 278

MKQIKIITGLTVATLSAVVGNVYAEDITPTAPVNEPQVSSETAKTPQVTESQVNSAKVTADQAI SDVNNQIIVVDEA  
QKQKQSQQNVLKATSTVTEAEKVAAEATPEVVKEAIKAVTEAKEAVTDAEANNVDAQKTEQKANQEVQSQAQTVDE  
NVKVADKESSEVQAEQGVVTTAQBAIDSKTANTNASEAEKAVTEKQTKLETAETNLTEAQKQDAKIAEEKRLAEQEV  
VNKQLAVTDTQTLKLLKLVTEINNEKVSTSLNQAYFNQRDGSWAGYGYNYTFAATGCVPSSSLAMVFTELARROITPT  
ETANYLWNNNSNEFNKNYGGTSGKGLVQATKHFGFVPTHLASQSAIVEALQAGHHVLA AVQODKFSFPWGINYSHEIVL

RGYSNGNTYVYDPYNRANIGWYPVANLWNEQSRDAIDTSSVGVPPFKITTTQKMAQLEAQKAQVQSSLNTAKNQLAKT  
QDVLRTLEATPLKTPPEAQAKLNQAKEALALAQADYTKAQEAVKLASQDLAVKEETLKNQAADLLTKQTALKDAQTIVL  
VASQVKLADLKATLATVENNVKKAQATLTDAKAIVGQKQAKLLALQNAFKTLADAQAKLVTAKNDLANKMAILDEAV  
AKLKSLOQAVQAEQKQYHVVFAYKAVRDAKEQAKLAESYNHIIARGGEAIPVVDKTDKITGYVDGSKAVANEVTL  
ALTSNGAPLESFVNKENQNVTKSSQALPHTGEAGLSILSVLGVGLISTLGLTSLKKRRPH

## SeqID 279

VRITHVSLWMPSKRSWPLKQLLRKGVIELEDELKTPYLDQYTDNLTAKVTKSSDDYQVYGRNKEVQSVIISLLRRT  
KNNPILVGEAGVGKSAIVEGITLAILRGQVPEPLKGLTVRSLESLMSSEDEGFIKFKKIEEMVATRGHNLFFV  
DEFHTIIGAGSQNGQALDAGNVIKPVLARGDIQLIGATTLDDEFHEYIETDRALERMMQPMVVEPTISQAITIIEOA  
KVIYEKPHGIQISSDAVHQAIRLSVRYLTDRFLPDKAFLIDEAATIASVEGSKSVTEKDIAQVLKDKTGIPVTTIL  
RGDQERLEGFKERLMNRVKQGEDAIEAVVDAVTIAQAGLQNEKRPLASFLFLGPTGVGKTELAKATAEALFDDEAM  
IRFDMSEYKQKEDVTFLIGNRATRIKQOLTEGVKQKPYCVLLLDIEIEKAHSEVMDLFLQVLDDGRLTDSSGRLISFK  
NTIVIMTTNIGAKKIINKWELKGNFKDLTDNRDRKQFEKSMOSELQNEFRPEFLNRIENKLI FNLLERDVIEKIAEKN  
LSEIADRMKRONLTLSYEPSLIQYLSDVGTVDKNGARPLERLMKRKVLAPISVKSLOLDKSKQGYNVHLWVEGRAPD  
GNHRQEQRQIHMEIEGERDNFFS

## SeqID 280

MAEENAAQQPSLRGKSRREVEFARSRDILDVAHELMELFRDGKNYRWKEHDSMVTIPATNQWYFWSQRQGGDVIAL  
VETIKEIGFNQAFYFLNEGTFKEFTVVNVQVKEPFSYYLEPEYQLFVEARRYLENRGLSDDTIDFFYDKGVLAQANA  
KVGDMIEPVLVFNLDKNGQVGAALQGLVAAPDKYFGRGYLKQIMKNSQPYNGMHVDIGTPNRLVFAESSIDLMSY  
YEIHKDSLSDVRLVSLEGLKTGTIGRHLIQLRAEMERRPLSSSWTDEILAQGLDEAVKQGYFKDGKNSHLLTLAVDN  
DVKGKQLIEELKDKSIPVIDATPPKAEGQSKMDWNAYLQETKATFSTEKYQEKIDHLISDVILGDETYYLWHDDDELV  
NLGAGDSIIQAFHHQLEDRRYVINQAEELYVEESSNDGATGYLSIEGHVLDKDGISDYLSQALTDKAEKVAFLETLOT  
ELPDIWDEIVNHDKVFEEVVVKYGLREKHADIIQEQELDLDPLVPEAKEKSLEMNQETNTGGELFNRRNSSFLGED  
SPGTAPQPVPTAQDPFPTNVRHLFTTDDGNMNSKAFKRNMRNLNLYANTMRDSAQWYLSEIADTTMSVYKTPHEE  
GVQVLSVHFGKKNWHLTGVTVPYENWVDSLSEQFIDDIANSGHFKNLKFALGTPDKLKLNLPELIESDFTFVN  
DLSSVQKLNLDLSQALNPEDSDILLLFRDEGLHQVPASLMRIKGDLEERLSHIDSGTVLGVYRERNQGLEQVSVNE  
EYVKDSGQEMLSILQNKHYEALDSGQEMVQTDGFSADFTKVLDAVYHVGVPDDLARVPEGVLPVWQKYLEVSEEN  
QWDLEQMIDYADKNSLLVKDSAPYKEWKEDMIYKNDYHVRQLQFAENWDNGVELPFRTEQLIDYKTFVTGLYEANQAH  
HQRQESQLPYTKTEFDIYAPGGQLIKDNVHYAIGDETRPVSQLMGLGYRRLPGYQELAVIDNSILSQLENKELNQE  
IASEANEHSLNSQEI PKEDNYPREAFSTPKQDIKKGLAQRVEEIWAEDATKILVSSIPQVQENLSVEGNLVGTPQAD  
NRMLYTNLEDGQDYQLELAVYSPKRVDFLEDVQAPWTLALIRKEKKIGYLAIGSDWAKEFQIEELEHLAAQIGDE  
KVPEGLYKQAEVEAFIASHQGNESLQEPITIVAEPPDYTSASAYEISEHAFQKIREYTSQPEDLLEYMDFMKFPQ  
LSPRNVALIHEQWRGANAVATYRQWKAMGEALGIKPDVVQTKATYVKNRTGETKEVVHQGLSVKTGEKSKITLFRP  
LMVKMIPVLDENGQQLKNDKGNPKYKKLSEASLOEKALVKDGKLPVRQFQERDSKTGQPRFTTYKVFELSQTTLKPG  
SYPKAMPNRHFNFNVDKVKTEVLEGLCDYAEKIGVSLMKDDAHVLDNAKGAFYSEEQLILINPNTPGKTIATTIH  
ELAHATLHNPKEKQYKELPKGQKEFEAEMTSYLLSKHFGLDTSEKAIHYMASWTDNLKALEDKQLADSLKRVHQTV  
SKMLKQVEKYTNPHQLGRGKEHGLNFPKAPTCKGSSR

## SeqID 281

MDVSSSPNITFMLQYTEANPQYVDYTNREEAVKIDEELSLETNRQMIEGLTEDELTRIQAEPETQLNFRYIDYMN  
RSYATEEQSKELTAITFQEADYLQKRLRIDLKNKLESAYQNGSLLWQGVISFDNAFLAEQGLYDVATGQVDQKAICA  
VMRDMPTLIQKEGLSDSAFWGNIHLNTDNIHIFGLSEVESNREKIFYQPRGRMEYKGNFSQKTINRFKSGVYHG  
LLKEETRSLNLRKEQILANLKADFTITSYQKDKITSSAEKNFLEQAYNHLPLNKKWRYGNSNARDFAVSKFFLDYRLD  
SYLNNEGSAAYQEFVLKETRDFLQTYEGVYSAEKNKIYEKLKRVGDQTI RTLAESKGYDLEHHLARRVMDLRERLANN  
ILRSFREAAPQIQDVQLEKNLESFVLNOKKILEQHPEASVVKSKAWQKLGYFVKAGEQPLEIIRPVYKSYDKHGK  
GIGRPEFVSDTVYDISQLTENIQLKSLTLKDLSLFSSNELKELVDAKLTNPTERERRELGTYRYALKLSILESSQ  
KELQVRQKLLQVQPLASDQPFDFKKQLIAQELQATIALQLTPNYKLSSEDDKALKNRLKQRFEDSVALPVSKATPGA  
IQLPIRQLWTELGLVHHIQDENILTLKGTSTTKQAYIEELQTHISIFQLKYQINNRRNKQISQLSDEATIKEMRIAN  
AKGFSELKRLYDTLQPSDDGQNIQSQAVSKQLQERKVIKKAQLQQTQRSKINTDFMRQLTASLNRSSQASKALME  
RARSEREEQEERRQAQR

## SeqID 282

MKKNKFLVSVIFIIIFVVQPNFQSLKNIFTQNDIASQLNIISSSPEEKNDGLGTAYQTQNEIDLKSKSFDGQHQVIV  
VNEKAQFTAELSMLRNGSWEKYDNLDLFLNRVGVAREAMLGKELMPKEARQDISSVKPTGWKNKKITFNGKQDYLYNRS  
HLIGFQLSGENANVKNLFTGTRALNANFNDDKSSMVYYENEVANYIKKTNNHVRVRYVTPLFKNVELVARGVRIEAS  
IEDETISFDVYIFNGQPGYDIDYLTGSSEKIMITK

## SeqID 283

VTKEIKIRSIPEKTWAQLHMISEBYEYPSFNEFMALQORIVENGGLDLYDNKFAETLAVIKEQQAQILDQLLKNEI  
KLLAYHAKQDIVEELTTDWLRFMDDDVDALAAERGAGGR

## SeqID 284

LLYYFIYLIKVIGNGLKLSLICGLNWLKIVFKGQFYLFSAVFCGLLTYYMPQDIQLFTVRVLELIIMLKVIIDVTH  
TALS RDFKRMKTPLFLGVMYVFFLAGNSYIKAHLLTEVMVNHLSIFWLISLFFATLVIVIQPRLFKHYLLKKVIDKE  
YLGIRKFTDSLPPPEINLYKDADEEDADKRMRLINQNVIKHPYQEVVELSFLNREVITAIGYKAVPFEKETERTFIDD  
DTIYPIFTVHPFRNLEKGSDFYHILMKLKLRSKAAFTKNGERLLIRDF

## SeqID 285

MIRNEFYNLINSEPIGFIDPFTDLGEFDSIQMKFKQPVRNLVNKYSKGKPYNLSWQNKIEQMRVLYIKYQKSLKLED  
EEQEVHNRVNKKSKKYVHEIVT'TYLLKLGFRFKBIEARVSLFNTRLRRNWKRSDYVTTDNPEFYLLKDLQNGYCSPN  
SFLPRSMKIN

## SeqID 286

MNEIKCPHCCTAFAINESYHQLLEQIRGDAFDKEVSEERLEKERLILGEQAKNQLQEVVVEKDKEIAKQYKVKQFL  
IEKDNLLKDNNEYQLAEQLNQKDMMLRDLENQIDRLRLEHENSLOEALTKVERERDAIQNLHQEKEKDLALASVKS  
DYEVLKAANEQVEFYKNFKAQOSTKAVGESLEHYAETEFNKVRHLAFPNAYFEKDNLTSSRSGSKGDFIYREKDEND  
LEFLSIMFEMKNESDDTIKHKHNEDEFFKELDKDRREKSCEYAVLVTMLEADNDYNTGIVDVSHKYPKMYVIRPQFF  
IQLIGILRNAALNTLKYQELALMKEQNIDITHFEEDLDIFKNAFAKNYNSASKNFQKAIDEIDKSIKRMEAVKAAL  
TTSENQLRLANNKLDVSVKKLTKRNPMTKAKFDALKD

## SeqID 287

MNHFEFLFKLKAGLTNLNINNIINYLKKNSLTSLSVRNMAVVSCKKNPTFFIENYKQLDLKKLRQEFKKFPVLSILD  
SNYPLELKBIIYNPPVLLFYQGNIELLSKPKLAVVGARQASQIGCQSVKKIIEKTNQFVIVSGLARGIDTAHVSA  
KNGGSSIAVIGSGLDVYYPTENKKLQEYMSYNHLVLSEYFTGEQPLKFHFFERNRIIAGLCQGIVVAEAKMRSGSLI  
TCERALEEGREVFAPGNIIDGKSDGCHHLIQEGAKCIISGKDILSEYQ

## SeqID 288

MTERTFEDIELDLKLFQIKLDNAENSKRLLOKLNKNDVMELQIELLESKLGDAYLSEEBELENNDFILTVNSETLS  
LSYDNRINLVSKEIMDYENALDKLYYBKQSLMQKSNERKGG

## SeqID 289

LFNKIGFRTWKSGLWLYMGVLGSTIILGSSPVSAMDSVGNQSQGNVLERRQDAENRSQGNVLERRQDAENRSQ  
NVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENR  
SQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDA  
ENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQ  
RDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQDAENRSQGNVLERRQ  
NVIFKLVGFGILLTSLRCGLRRNEN

## SeqID 290

MKRLTYFYFKGYIKETIFGPLFKLLEASFELLVPIVIAKMIDETIPRGDRSSLLQLIGLIFFLAAVGVVVAITAQYYS  
SKAAVGYTRQLTEDLYQKVMISLGGKDRDELGTASLITRLTADTFQIQGTGLNQFLRLFLRAPIIVFGAIIAFAFSISPS  
LTIWFLVMVTLFIIIVFMSRLNPIYLKIRTSTDYLVKLTRQQLQGVVRVIRAFNQVDRESEAFNDINHYTNLQLK  
AGRLSSLVTPPLTFLVNIITLVVLIWRGNLNIANHLLSQGMLVALINYLLOILVELLKMMLVTSINQSYISAKRIIA  
VFERPSEIIDDKLEPKYSNKALEVQEMAFSYPNSSEKALSDITFSMNVGETLGIIGGTGSGKSTLVNLLLHIYKVQE  
GDIDIIHQKSPDTISNWRTLVRVVPQNAQLFKGTIRSNLSLGLGKVSEKLTWALEIAQASDFVKEKDQQLDAPVE  
SFGNRFSGGQRQRLTIARALVQDKIPFLILDDATSALDYLTARLFKAITKHFNTNLIVSQRINSIQNADRILL  
DKGKQVGFNDHQSLLAHNKVYSIYHSQNFKEEE

## SeqID 291

MKFNEQSNQAALLGLQHLLAMYAGSILVPIMIASALGYNAEQLYTIATDIFMCGIATLLQLQLSKHFGVGLPVVL  
GCAFQSVAPLSIIGAQQSGYMGALIASGIYVVLVAGIFSKVANFFPIVGTGSVITTIGLTLIPVAMGNMGDNAKE  
PSLQSLTSLVLTIGVLLINIFAKGFLKSISILIGLISGTILAAMGLVDASVVAEAPLVHIPKPFYFGAPRFEFTS  
ILMMCIIATVSMVESTGVYALSDITNDKLDKRLRNGYRSEGLAVLLGGLFNTFPYTGFSONVGLVQISGIRTRKP  
IYFTALFLVILGLLPKFGAMAQMI PPSVLGGAMLVLFGMVALQGMKMLNQVD FEHNEHNFIIAAVSLAAGVGFNGTN  
LFISLPNTLQMF LTNGIVISTLTAVVLNIIINGLPKKLI

## SeqID 292

MANTYDLISORIEAQRQKLIADIVAVASSLGLNLKQSGGHLIYWEHDSFHIYPQTNTFRWWSRSMGTNTIDLQV  
IQEELTGKKPSFRETQVNFLETGQFESVTVPVREPFKHYLAPYEHNFDLGRQYLKEERGLSDETIDFALASGMS  
SATLKKGDYFEPVIIFKSFAEDGRMIGGSLQGIENKVQHPERGRKQIMKHS DGLAGFHL DVGTPKRLVFSEAPID  
LLSYELHKESELQNVRLVAMDGVKGVISRYTADLLTDGQYSQTMPRESIRGAIDAINQTTIRLKNPNMIMITIADVN  
DEAGRNFIKELQEDGIPINVDLPPRKEHQSKMDWNNYELKQKGLLKMPTQEGTQKAPEQVLEHEKMDRSQISSGLE  
DDPQGSAPKVS KRDTFEQAVTSHPTFSYPLLQFSTEEAFSNVVDGYHIASEEDIRNLNYYAPSLQQTANWYRDNL  
DRQVTYMLKGDKEIKALQVSAKDKFAHLTGIRPIGKGLSAEKLDDFAKGRGSPNLTLSNGFNDKIQVLPMIQEL  
SQSKSFVFTDLEEVQKMRNLKASHAIQSNNSRLVVALKTIDDVTFPSSLLRGKKNLNDLIQKAKENEVLGVLSEKD  
GNITVLSVNDKYIQDGGQALKDMIKNGELEPLQMETIQRHVPHENAYPKDSGDGLTDDEEIALGTNPFSSSDSDGDG  
TPDNVEKANGTDPTNASDNEVTRQOEANKRDFTLSEMIKAKNTAALNQLQDGIKQYFSDTYKQYLEGMAHFNNYS

PRNIQLIMSQFPEASMVASFQEWKRNGSVKKGEKAIYIQAQVSVMKKDENGKPIILNPETGEKETITYFKPVPVFDI  
KQVSPQEGKELNLPKAMGTIPEQLDKYQNVYRSLRDISQNNNKVPIRFRELQGEDGFYSPTNEIVIKKGMSYER  
TLSTLIHEMAHSELHNKQSLTERFDGKLTSTKELQAESIAYVVSLSHLGFDTSQESFPYLASWSKEKDGLANLTAQL  
EIVQEEAKNLMERIDQQLSQYQTVTLNKETQQLTKQEMKKQTHPFYQSLAAAKTSRAQVTTQEKEASVKKDNRPMTMP

## SeqID 293

MNSQETKGGHFFRKSAYGLVCGIALAGAFTLATSQVSADQVTTQATTQTVTQNOAETVTSTQLDKAVDTAKKAABA  
VTTTTAVNHATTTDAQADLANQTQAVKDVTAQAQANTQAIKDATAENAKIDAENKAEAEVAKANKAGQAEVDARNK  
AGQAAVDARNKAKQQAQDDQKAKIDAENKAESQSVSQAQNAQNAKAKIDAENKDAQAKADATNAQLQKDYQTKLANIKS  
VEAYNAGVRQRNKDAQAKADATNAQLQKDYQAKLALYNQALKAKAEADKQSINNVAFDIKAQAKGVDNAEYNSIMT  
AKTKPDGSFEFNHDMIDGVKTIIGYGKLTGKVNHHYVANKDGSVTAQVDSVTLYKYEYRNVAQNAAVNQNI VFRVLTK  
DGRPIFEKAHNGNKTFAETLNKTLQNLKYELKPHASSGNVEVFKIHDDWVHDTHGSALVSYVNNNDVAVPNVVIPEQ  
PTPPKPEKVTPEAKPVPEKPVPEKLTVPVLTYPVKFIPREYKPVSTPETFTPEKFTPAQPKVKPHVSVPEKIN  
YKVAVHPVQIPKATPTKKVLDENGQSINGKSVLPNATLDYVAKQNFQYKGIKASAEAIKGFVFDQPNELAEALT  
VKSİKASNGDDVSSLLEMRHVLSDTLDQKLSLIKAEAGISPVGEFYMWTAKDPQAFYKAYVQKGLDITYNLSFKVK  
KEFTKGQIKNGVAQIDFGNGYTGNIVVNDLTTPEVHKDVLKEDGKSINNGTVKLGDEVTYKLEGWVVPANRGYDLF  
EYKFDVHLQHTHDLYLKDKVVAIVAILTKDGTVPKGTNLVQYTETVYNKETGRYELAFKADFLAQVSRSSAFGADD  
FIVVKRIKAGDVYNTADFFVNGNKVKTETVVTHTPEKPKPVMQKVTPKAPALPSTGEQGVSVLTVLGAALLSLGL  
VGFKKRQQ

## SeqID 294

MNQIKIITGLTVATLSAVVGNVYAEDITPTAPVNEPQVSSETAKTPQVTEQVNSAKVTADQATSDVNAQKNVVNNA  
QNQKNQAQKLNVNATTTLNQKLVQESTNQNVQQTVDQAKQLRSQTEANQKITQTEQVKAQNVQNAQQTVVVNNE  
HDVATKTADVQQAQASVDTAKDALNTIIVNSDLNKAQSNVTTKTADVKATDALTKAQTDKTLTNQKAKAQQIVDS  
AKQNLQSAKDTQLSQANAEVNHKFKTALGQSHYYNQDNAGWAGVYGGHTFASTGCVPSALAMVYSDLSNRITITPREI  
ADLYLNNTEDEFNKREGGTSGKGIISATKAFGYVTHLASKNAITEALKAGHHVAAVQNNKFSWGPQYSHEIVLRG  
SSNGNTYVYDPYNRDNGFYSDRIWNEQSRDSIDTAGVGVPFFAIMTKNMANALTKQSQALASQQAQKQLNDAQA  
KATGLNAVMTMQTPIAQANLIKQASNLKDAQKRLAEQASVKLANQDNVKKQADLTAKESKLKDAQKQLAAQAKLTT  
SKTKLNQKQVLAESQQAQANQDYKQAKDNLTKTAYLTNLRNAQANLIKQSDVAQAKDNLANKIAKLQREVAY  
LQELKTKAVDAQSQYQKVLQSAKSVLSAKASLKLAEKARLDKKGHEAVAVVDETGKITSYITSKHKIEMKSLVATK  
TTDVQKQSVAKASVLPSTGDKVQVSVALLGMLLTFSGFLGIRKQSKKVIN

## SeqID 295

MISRKVALVTGASAGFGAAITVTKLVSDGYSVIGCARRMDKLKCFGEKFSQYFYPLQMDITSRESVDKALESLPKNL  
QSIDLLVNNAGLALGLDKSYEADFEDWMTMNTNVVGLIYLTRCILPKMVEVNRGLIINLGSTAGTIPYPGANVYGA  
SKAFVKQFSLNLRADLAGTKIRVTNLEPGLCEGTEFSTVRFKGDHKKRVEKLYEGAHAIQAEIDANTVSWVASQPEHI  
NINRIEIMPVSQTYGPQPVYRD

## SeqID 296

MIYLDNAATTALTTPSVIEKMTNVMTSNYGNPSSIHTEFGRQANQLLRECRQIIAEYLVNVSREIIFTSGGTESNNTAI  
KGYALANQLKGKHIITSEIEHHSVLHTMTYLSERFGFDITYLKPNGHQITAKDVQEAALRDDTIMVSLMFANNETGDF  
LPIQEIGQLLRNHQAVFHVDAVQVFSKMELDPHSLGIDFLAASAHKFHGPKGVGILYCAPHHFDSLLHGGDQEEKRR  
ASTENIIGIAGMSQALTDATTNTLKNWTHISQLRTTFLDAISDLDFYLNNGQDCLPHVLNIGFPRQNNGLLLTQLDL  
AGFAVSTGSACTAGTVEPSHVLTSLYGANSPLNSESIRISFSELNTQEEILELAKTLRKIIIGD

## SeqID 297

MSRKTFKHILSIGVCTLVLSMSLYYTEKAHAIAGPSDRQYVENPNPHIIVNVTGTDQNGNSILPHYIEVNVKMGQTL  
SKEEILDYIARNLSSVGGESKNVQYSNIEFKESAYLKRQLDDGKTEEIAIDNDGVTVPKDGPNKFWIDVPVCTVT  
PIVTETHEVRWGTPVAISHRIYFVEESSGKVLDEYTNLHTADSELNGYRVGDYITDYALSKSAYEAFLNSRLDKEGY  
KLQHRISTNVRQNLQIDKLIFNYDFNEENIYYQIGNIRPLLSRSSAEVESDIITERYYVSKNAKSLARTESTISIKM  
VDAKTEQPLFNHTLTGYQLATVSHVYNRLFEEENLIPTTKSGERYFIQNMKKTAEQBYTVYLSETPYSKENAPVISYD  
ARPVDWDYHSGASGSLNQPNITYTEEDSTEFNGKPKQAACYPNKQFACENTDSKYNYSYLEK

## SeqID 298

MNPLIIGMNDKQAEAVQTTDGPLLIMAGAGSGKTRVLTHRIAYLIDEKYVNPWNILAITFTNKAAREMRERAIALNP  
ATQDTLIATFHSVCVRILRREADYIGYNRNFTIIVDPGEQRTLMKRIKQLNLDTKKWNERSILGTISNAKNDLLDEI  
AYEKQAGDMYTQVIKCYKAYQEELRRSEAMFDDLIIMTTLRLFDQNKDVLAYYQORYQYIHVDEYQDTNHAQYQLV  
KLLASRFKNCVVGADQSIYGWRGADMONILDFEKDYQAKVVLLEENYRSTKKILOAANNVINHNKNRRPKKLWT  
ONDEGEQIVYHRANNEQEEAVFVASTIDNIVREQGNKFDFAVLYRTNAQSRTIEEALLKSNIPTVMVGKTFYSRK  
EIRDVIAYLNLANTSDNISFERIVNEPKRGVPGTLEKIRSFAYEQNMSLLDASNNVMSPLKGAAQAVWDLANL  
ILTLRSKLDLSTVTEITENLLDKTGYLEALQVQNTLESQARIENIEEFLSVTKNFDNPEITVEGETGLDRVLSRFLN  
DLALTDATDSDSATETAETVTLMTLHAAKGLEFPVFLIGMEEGVPLSRAITEDADELEEEERRLAYVGITRAEQILFLT  
NANTRTLFGKTSYNRPTRFIREIDDELIOHQGLARPVNSSFVGKYSKEQPTQFGQMSLOQALQARKSNSQPQVTAQ  
LOALNANNSHETSWEIGDVATHKKWGDGTVLEVSGSGKTQELKINFPGIGLKKLLASVAPISKKEN

## SeqID 299

MKLYVQLMVILTFSFAGEVLSTIFNLPVPGSIIGLILLFLALKYKIIRLRHIDAVGNFLLANMTILFLPPAVGLMEH  
FQDIKPYLFGIAIILGALFLNLTIGLVSQWIKKRYEGDYPEIGGKNGNFNE

## SeqID 300

MIFVTVGTHEQQFNRLIKEVDRLKGTGAIDQEVFIQTGYSDFEPONCOWSKFLSYDDMNSYMKEAEIVITHGGPATF  
MSVISLGKLEPVVPPRRKQFGEHINDHQIQFFKKIAHLYPLAWIEDVDGLAEVLKRNIATEKYQGNNDMFCHKLEKII  
GEI

## SeqID 301

MVMKIIELKEATVQVSNGLAEMKTIIDHVNLSIYEHDFITILGGNGAGKSTLFENVIAGTLMLSGGNIYIMQDVTNL  
PAEKRAKYLRSRVFQDPKMGTAAPRMVAENLLVAKFRGEKRPLVPRKITNYTEEFQKLIARTGNGLDRHLETPTGLLS  
GGQROALSILMATLKKNLILLLDEHTAALDPRTSVSLMGLTDEFIKQDSLALMTTHHMEDALKYGNRILVMKDGI  
VRDLNQAQKNKMAIADYYQLFD

## SeqID 302

MEIKKKHRIMLYSALILGTILVNNSYQAKAEELTKTTSTSQIRDQTQNNIEVLQTESTTVKETSTTTTQOQLSNPTA  
STATATATHSTMKQVVDNQTONKELVKNGDFNQTNVSGSWSHTSAREWSAWIDKENTADKSPIIQORTEQQQVSLSS  
DKGFRGAVTQKVNIDPTKKYEVKFDIETSNKAGQAFLRIMEKKDNTRLWLSEMTSGTTNKHTLTKIYNPKLVSEV  
TLELYYEKGTGSATFDNISMKAQKPKDSEHPQPVTTQIEESVNTALNKNYVFNKADYQYTLTNPGLKIVGGILYPN  
ATGSTTVKISDKSGKIIKEVPLSVTASTEDKFTKLDDKWNVDVTIGNHVYDTNDSNMQKINQKIDETNAKNIKTIKLD  
SNHTFLWKDLNLSNAQLTATYRRLLEDLAKQITNPHSTIYKNEKAIRTVKESLAWLHQNFINVKNKDIEGSANWDF  
EIGVPRISITATLALMNNYFTDAEIKTYTDPIEHFVPDAGYFRKTLNPFKALGGLVDMGRVKIIEGLLRKONTIE  
KTSLSLKNLFTTATKAEGFYADGSYIDHTNVAYTGAYGNVLIDGLTQLLPPIIQETDYKISNQELDMVYKWINQSFLP  
LIVKGELMDMSRGRSISREAASSHAAAVEVLRGFLRLANMSNEERNLDLSTIKTIITSNKFYNVFNKLKSYSDIAN  
MNKMLNDSTVATKPLKSNLSTFNSMDRLAYYNAEKDFGFALSLSKRTLNIEGMNDENTRDWYTGDMFYLYNSDQS  
HYSNHFWPTVNPYKMAGTTEKDAKREDTTKEFMSKHSKDAKEKTGQVTGTSDFVGSVKLNDHFAALAAMDFTNWDRTL  
TAQKGWVILNDKIVFLGSNIKNTNGIGNVSTTIDQRKDDSKTPYTTYVNGKTIDLKQASSQQFTDTKSVFLESKEPG  
RNIGYIFPKNSTIDIERKEQTGTWNSINRTSKNTSIVSNPFITISQKHDNKGDSYGYMMVFNIDRTSFDKLANSKEV  
ELLENSSKQQVIYDKNSQTWAVIKHDNQESLINNQFKMNKAGLYLVQKVGNDYQNVVYQPTMTKTDLQAI

## SeqID 303

MHSFSNPGYPYDNAVTEAFFKYLKHRQINRKHYQNIKQVQLDCFEYIENFYNNYNPHTANLGLTPNQKEENYFNAIK

## SeqID 304

VKITYGYIGSVAAILLATHIGSYQLGKHHMGLATKDNQIAYIDDSKGGKAKAPKTNKTMQISAEEGISAEQIVVKIT  
DQGYVTSHGDHYHFYNGKVPYDAIISEELLMTDPNRYFKQSDVINEILDGYVIKVGNGYVYVLYKPGSKRKNIRTKQQ  
IAEQVAKGTKEAKEKGLAQVAHLSKEEVAAVNEAKRQGRYTTDDGYIFSPTDIIDDLGDAYLVPHGNHYHYIPKKDL  
SPSELAAQAQYWSQKQGRGARPSPDYRPTAPGRRKAPIPDVTPNPQGQHQPNDNGGYHPAPPRPNDSQNKHQORDEFK  
GKTFKELLQDLHRLDLKYRHVEEDGLIFEPTQVIKSNAFGYVVPHGHDHYHIIPRSQLSPELMELADYAGLEQTEDND  
SGSEHSKPSDKVTHFTFLGHRIKAYGKGLDGKPYDTSDAYVFSKESIHSVDKSGVTAKHGDHFHYIGFGELEQYELD  
EVANWVKAKGQADELAAALDQEQGKEKPLFDTKKVSRRKVTKDGVGYMMPKDGKDYFYARDQLDLTQIAFAEQELML  
KDKKHRYRDI VDTGIEPRLAVDVSSLPMMHAGNATYDTGSSFVI PHIDHIHVVPYSWLTRDQIATVKYVMQHPEVRPD  
VWSKPGHEESGSVIPNVTPLDKRAGMPNWOI IHSAAEVQKALAEGRFATPDGYIFDPRDVLAKETFWVKDGSFSIPR  
ADGSSLRITINKSDLSQAEWQQAQELLAKKNTGDATDTPDKPKEKQQAQDKSNENQQPSEASKEEKESDDFIDSLPDYGL  
DRATLEDHINQLAQKANIDPKYLIFQPEGVQFYNNKNGELVTYDIKTLOQINP

## SeqID 305

MKKGFFLMAMVVSLVMIAGCDKSANPKQPTQGMSVVTSFYPMYAMTKEVSGDLNDVRMIQSGAGIHSFEPSVNDVAA  
IYDADLFVYHSHTEAWARDLDPNLKKSVDVFEASKPLTLDRVKGLEDMEVTQGIDPATLYDPHTWTDVPLAGEEA  
VNIAKELGRLDPKHKDSYTKKAKAFKKEAEQLTEEYTKQFKKVRSKTFVTQHTAFSYLAKRFGLKQLGISGISPEQE  
PSPRQLKEIQDFVKEYNVKTI FAEDNVNPKIAHALAKSTGAKVKTLSPLEAAPSNGKTYLENLRANLEVLYQQLK

## SeqID 306

LRKKQKLPFDKLAIALMSTSIILLNAQSDIKANTVTEDTPATEQTVETPQPTAVSERAPSSKETKTPQTPSDAGETVA  
DDANDLAPQAPAKTADTPATSKATIRDLNDPSQVKTLQEKAGKGAGTVVAVIDAGFDKNHEAWRLTDKAKARYQSKE  
DLEKAKKEHGITYGEWVNDKVAYYHDYSKDGKTAVDQEHGTHVSGILSGNAPSETKEPYRLEGAMPEAQLLLMRVEI  
VNLGLADYARNYAQAIRDAINLGAKVINMSFGNAALAYANLPDETKKAFDYAKSGVSVIVTSAGNDSFSGGKTRLPLA  
DHPDYGVVGTAAADSTLTVASYSPDKQLTETATVKTADQDQKEMPVLSTNRFEPNKAYDYAYANRGTKEDDFKDVK  
GKIALIERGDIDFKDKIAKAKAGAVGVLIYDNQDKGFPIELPNVDQMPAAFI SRKDGILLKDNPKQKTIITFNATPKV  
LPTASGTKLSRFSSWGLTADGNIKPDIAAPGQDILSSVANPNKYAKLSGTSMSAPLVAGIMGLLQKQYETQYPMTPS  
ERLDLAKKVLMSATALYDEDEKAYFSRQOGAGAVDAKKASAATMYVTDKNTSSKVHLNNVSDKFEVTVTVHNKS  
DKPQELYYQATVQTDKVDGKHFAALAPKALYETSWQKITIPANSSKQVTVPIDASRFSKDLAQMKNGYFLEGFVRFK  
QDPKKEELMSIPYIGFRGDFGNLSALEKPIYDSKDGSSYYHEANSADKQDLGDGLQFYALKNNFTALTTESNPWTI  
IKAVKEGVENIEDIESSEITETIFAGTFAKQDDSHYYIHRHANGKPYAAISPNGDGNRDYVQFQGTFLRNAKNLVA



EVLDKEGNNVWTSEVTEQVVKNNNDLASTLGSTRFEKTRWDGKDKDGKVVANGTYTYRVRYTPISSGAKEQHTDFD  
VIVDNTTPEVATSATFSTEDRRLTLASKPKTSQPVYRERIAAYTYMDEDLPTTEYISPNEGDTFTLPEEAETMEGATV  
PLKMSDFTYVVEDMAGNITYTPVTKLLEGHSNKPEQDGSQAPDKKPEAKPEQDGSQTPDKKTETKPEKDSGQTP  
GKTPQKGQPSRTLEKRSSKRALATKASTRDQLPTTNDKDTNRLHLLKLVMTTFFLGLVAHIFKTKRQKETKK

## SeqID 307

FSVTYSQSERTVVFSGEITFSRSRWINGFETRIPVDEWLGLEKYKRYSEFLYHVAKLATMMPYRQVCKVIDSTLQ  
TIITKDCVLKAVKFVEKLLKEKERYFYLEPPERKKVKLYVEGDGVMIKSTDSREERRYLDLTHFVIHTGSKKVS  
TKRYELQDKHEILQLNYDKAKYNLLDYIYNNEVDDDTILITNSDMGKGYTSRVFKELGKALKVKKHEHFWDIYHVK  
EKLSSYLKYPIELTDFALDAVKYNSDKLELVFDTVESLICDELEDQEFQKFKKKVLNNFKYIKPAHLRNLNSNGI  
GIMESQHRKITYRMKRRGMYSKWGISTMANMIILERANGLRBLFFGSRWKVYSEYKEGSFSAGRLFKKTDDELKFS  
KPLLKNGRKWSITGIKTK

## SeqID 308

KASSGDYGTKRBIITANKDKYSISKMCRWLNMPRSSYYYQAVESVSKTEFEETIKRIFLDSBSRYGSRKIKICLNNE  
GITLSRRRIRIRIMKRLNLVSVYQKATFKPHSRGKNEAPIPNHLDRQFQERPLQALVTDLTIVRVGNRWAYVCLIID  
LYNREIIGLSLGHKTAELVKQAIQSIYPALTQVKMFHSDRGKEFDNQLIDEILEAFGITRSLSQAGCPYDनाव  
TYRAFKEFVYQETQFQSLLEELALKTEKATLFTTTFIKCCLFRFLPML

## SeqID 309

MKTRNRKGGYLANTANEYIDSKQAIHCLSVELEPQIRFEEGQPTGEIIAYKAWFSQKGLPPFMVKFENEVTLPAYMV  
MVQFENLQACEVGFNVYFKADNLKEVK

## SeqID 310

LSTFDSVTGRTNHLEAYEGLNLSEKFAILSHFDKLRNELQTPSIQLGEFDREMEAFSITLGNELLGYLEANGSPYEL  
KRELNQAEMLMAVLELSRQLVAKFSTKLEELGIDLGSFQPDQVNIILDAVGRFRLKNADIALLGYPKASVSQALALAT  
ELLQMGSLSHDKVEFFLTSQLQLEDMRQVAFALHESLTREEAEQFETDRFRHTSLNFREWRELLEKQEPMEVMSDV  
SPLVREVLIHHYPLGSRVYTKGQEFELISIEAADMDNLIRIELQNDFSYLIEQNPVLYFQNLAEIRQVLHLSRSEIVE  
REEQPEEWTFLFSFMDGEGTEDNEKEPEIVFESTDKVVTLDSPQAQVSETISESPETKEVIEAEQAIADVDFSPEDL  
TNFYPTARQKVVANLVAIRLVKELESANQSATPNEQEILAKYVGWGLLANEFFDEYNPKFSKERBELKTLVSDKEY  
SDMKQSSLTAYYTDPLIRQMWSKLEQDGFSGGKILDPMSGTGNFFAAMPALHREKSELGCVELDTITGAIKQLHS  
NVHIEVKGFEVAFNDNSFDLVISNVPPANIRIADNQYDKPYMIHDYFVKKSLDLVHDGGQVAIISSSTGTMDKRTE  
ILQDIRETTDFLGGVRLPDTAFKALAGTSVTTDMLFFQKHLNKGQYQADDIAFGSGSVRYDKDERIWNLPYFDGYNQ  
VLGRYEIKNFNGGTLVSKETTDNLIASVREALQHVKAAPRVIDKTEVMINSVDIARQVIDTTIPPEIRENLEQYSYGY  
KQSTIYYRDNKGIRVGTKTEEISYYVDDEGNFQAWESKHSQKQIDRFNNLEVTDSTALDVYVTEPAKRGQFKGYFK  
KAVFYEAPLSEKEVARIKGMVDIRNAYQEVIAIQRNQYDYDKNEFNRLGNLNRITYDSFVKRYGFLNSPVNRNLFDS  
DKYSLLASLEDESIDPSGKTVIYTKSLAFKALVRPEKMVKEVSTALDALNSSLADGRGVDFDYMASIYQTASKAAL  
IEELGDQIIPDPESYLKQLTYVSRQEFSLGDIVTKLEVMDLLLQDNHDFNWAHYGNLLESVRPARVMLADIDYRI  
GSRWIPLAYVYKGFVQEAFMGKNYDLTATEVEEVLVSVPIDGTMEFRTRFAYTYSTATDRSLGVAGSRYDSGRKIFEN  
LLNSNQPTITKQIQEGDKKNVTDVEKTTVLRAKRAQIQDLFQDFVASYPEAQQMIEDTYNSLYNRTVSKVYDGSRL  
EIDGLAQNISLRPHQKNAIQRIVEEKRALLAHEVSGKTLTILGAGFKLKLGMVHKPLVVPSSSLTAQFGQEIIMKF  
FPTKKVYVTTKKDFAKARRKQFVSRIITGDYDAIVIGDSQFEKIPMSQEKQVYTIQDKLEQLREIKQSDSDYTVKE  
AERSIKGLENLQLEELQKLDRTTIEFENLGIDFLVDEAHFKNIRPITGLGNVAGITNTTSKKNVDMEMKVRQIQ  
EYGDNRNVFATGTPVSNISSELYTMMNYIQPDVLERYQVSNFDSWVGAFGNIENSMELAPTGDYQPKKRFFKFFVNL  
PELMRIYKETADIQTSMDLDPVPEATVIAVESELTEAQKNYLEELVDRSDAIKSGSVDPSVDNMLKVIGEARKLAI  
DMRLIDPAYTLSDNRKQINQVVDNVERIYREGKGDKNATQMFSDIGTPKSKEEGFDVYNELKALLVDRGIPKEBIAFV  
HDANTDEKKNLSNRSKGEVRIILMASTKEGGTGLNVQARMKAVHHLDPVWRPSDIQQRNGRLIRQGNQHQNBIEIYH  
YITKGSFDNYLWATQENKLYIKQIMTSKDPVRSADIDEQTMTASDFKALATGNPYLKLKMELENELTVLENQKRA  
FNRSKDEYRHTISYCEKNLPVMEKRLRQYDRDIEKSQATKNQEFIMRFDNQIDNRSEAGDYLRKLITYNRSETKEV  
RTLATFRGFELKMATRSPGEPLSDMVSLTISGDNQYSVSLDLKSDVGTIQRINNAIDHILEDKEKTEEMTNLKDKL  
AVARVEVEKVFKEEYQLVAKYDVLAPLVEREADLEEIDVALSQFSSSDPCLKKDQQLVLDI

## SeqID 311

MTTKCNHFLINQEKGEKYVFRKSKQYRTLCSVALGTVVMAFVALAGPMVQADEVGRVATSVQTTETNPATNLKENQ  
PSPIAEQKDSLAATGQSTGTVTVTVPKDKVTQAVDKAKTEGIAVQDKPMDLGNVTSAAETSQQLKKAEDATNQTT  
TISKTVETKSDKATYAEKKWVEKRNEELTAAYDKAEQTGTGLNHSVDITVSELKSQDQNAHVTVNTQTVKSGDGT  
SVSGYQYVKSVAADKKNKANLADYRTKKQAADAVVAKNQLIQKENEAGLAKAKAENEATDRRNKEGQKAVDEANK  
AGQAAVEQANQEKQKQANRAFEIATITKRNKEREEVAKKENAIDAYNAKEWIRYKRDLANISKGEEGYISEALAQ  
ALDNLHGEQPVKHGAGTRNPDRIISKGDAMLGGYSNILDSTGFFVYNHFKTGETLNFYQNLKHARFDGKKITAITY  
DITNLVSPGTGNAVQLVVPNDPTGFIAYRNDGAGNWRDCKMEFRVKARYFLEDGSGQVTFTEKEKPGVFTHSLNHN  
IGLEYVKDSSGKFPVPIHGSSVQVTNEGLARSLGNSRASDLKLPEDWTTSSRYAYKGAIVSTVTSNGNIYTVTFGQGD  
MPTQVGKTYWFALNTLPVAKTVTPYNPKTHVRPQLDPVPEPIKVTPEYTPPKIPTPEKPVFTTPKSVEKVPQPSLT  
LTKVTLPTNLKLEPLKAPQKPTVHYHDYLLTTTPAIAKEVMNVDKVNLHGKQVAKDSTVIYPLTVDVLSPNRSKIT  
SLIFEDYLPAGYAFDMTKTQAENS DYDLTFDKNKNFVTLKAKDSSLQTLNKLNRSYQLSAPKLYGSGVQNDGATYSN  
SYKLLINKDTPNTYTVISNVVRIRTPGDGETTSRIRPKKDNENADGVLLINDTVVALSTTNHYRLTWDLDQYKGDTS

KDTIARGFLFVDDYPEEALDLVDKGTVITTLTGKAVSGISVYSYTSLSKAPKELQDKLARANISPKGAFQVFEPDNH  
QAFYDTYVKTGQSLALITKMKVKDSLYGQTVRYKKNAYQVDFGNGYETKEVNTVHVHEPKKQNLNKKDKVDINGKAM  
LVGSQNFYTLSDWLDQYRGLQADKSQIAQGFYFVDDYPEDVLLPDTKAIQIMTKDGKAVKGMEIKTYHQLSDAPKEL  
QAALAKRNIITPKGAFQVFMPKDPQAFYKAYVTTGQNLTTIVNPMTVREAVNSGKSYDNVAYQVDFGQAYETNIVTNH  
VPTVNPBKSNINKEGVSIEGKTVLENTVNYKIVLDYSQYKNIIVTDDVLVKGYMDDYPEEALTPHPDGTQVMDQ  
NGKVFVRGLSVRTYASLADAPKAVQEAMKSRNFIPKGAIQVFQADDPKTFEFTYVKTGQKLVTTPMTVKNERIQGTGG  
QYENTAYQIDFGIAYVTETVNNVVKLEPQKDVVIDLSQKDKSLNGKALALDQVFNRYLVGSLIPRNRATALVEYSF  
KDDYDEKHDEYKGVYKAYTLRDVTLKDGTVLKGQTEVTRYTLQSVDAKGTIAIRFDTAFLENIADSEFQAELYLQ  
MKRIASGDVENTVIHSHVNGYNIRSNTVKTTPQPSPTPDNPPSPQPPVPTTESPVQASVLPSTGESQSLLALIGGG  
LLLGLAYGLSKRKKKEKN

## SeqID 312

MANNNFYNRDPFGNMDDIFNSLMGNMGYNSSENKRYLINGREVTPEEFSQYRQTGKLEPGQELNNQNTPTNQVSADSV  
LTKLGTNLTDQARQHLLDPVIGRNKEIQETAELARRTKNNPVLVGDAVGKTAVIEGLAQAIINGDVPAAIKNKEI  
ISIDISSLEAGTQYRGSFEENIQNIIEVKETGNIIFFDEIHQILGAGSTGGDSGSKGLADILKPALSRGELTVIG  
ATTQDEYRNTILKNAALARRFNEVKVNAPSAQDTFNILMGIRNLYEQHHNVLPDSVLKAAVDLSIQYIPQRSPLPK  
AIDLIDMTAAHLAAQHPVTDLKSLEKEIAAQRDQKQKAVNTEDFEEALKVKTRIEELQNQIDNHTGEGQKVATINDI  
AMSIERLTGVFVSNMGASDIERLKELGNRLKGVIGQNDAVEAVARAI RRNRAGFDDGNRPIGSFLVFGPTGVGKTE  
LAKQLAFDMFGSKDAIVRLDMSEYNDRTAVSKLIGATAGYVGYDDNSNTLTERIRRNYPYSIVLLDEIEKADPQVITL  
LLQVLDDGRLTDGQGNITNFKNVTVIIATSNAGFGNEAFTGDSKDLKIMERISPYFRPEFLNRFNGVIEFSLSKDD  
LNEIVDLMLDEVNQITIGKKGIDLVDENVKSHLIDLGYDEAMGVRPLRRVIEQEIRDRITDYLDHTDVKHLKANLQ  
DQQIVISER

## SeqID 313

MGRFKELLESKKALILHGALGTELESRGCDVSGKLWSDKYLIEDPAAIQTIHEDYIRAGADIVTTSTYQATLQGLAQ  
VGVSESAQEDLIRLTVQLAKAVREQVWKSILTKEEKSERIYPLISGDVGPYAAFLADGSEYTGLYDIYKEGLKNFHRH  
RIELLLDEGVDLLALETIPNAQAEALIELLVEDFPQVEAYMSFTSQDGKTSIDGSAVAGLAKAIDVSPQVVALGIN  
CSSPSLVADFLQAI AEQTDKPLVTYPNSGEIYDGASQSWQSSRDHSHLTLENTSDWQKLGAQVVGCCCRTRPADIA  
LSEHLT

## SeqID 314

MKIGIDKIGFATSQYVLEMTDLAIARQVDPEKFSKGLLLDSLSITPVTEIDIVTLAASAANDILSDEKETIDMVIVA  
TESSIDQSKAASVYVHQLLEIQPFARSFEMKEACYSATAALDYAKLHVEKHPDSKVLVIASDIKYGIKSTGESTQG  
AGSIAMLSIQNPSILELKEDRLAQTRDIMDFWRPNYSVDPYVNGMFSTKQYLDMLKTTWKEYQKRFTSLSDYAAFC  
FHIPFPKLALKGFNKILDNNDLEQKKAELQENFEHSITYSKKIGNCYTGSYLYGLLSLLENSQNLKAGDQIAFFSYG  
SGAVAEIFTGQLVDGYQNKLSQDRMDQLNKRQKITVTEYEKLFPEKTILDENGNANFNTRYRTGTFSLSICEHQRIY  
KKINN

## SeqID 315

MKSAYIFFNPKSGKDEQALAEVKSYLEHDFQDDYVRIITPSSVEEAVAKKASEDHIDLVIPLGGDGTINKICG  
GVYAGGAYPTIGLVPAAGTVNNFSKALNIPQERNLALENLLNGHVKSVDICKVNDYMISSLTGLLLADIAANVTSEM  
KRKLGPFAFVGDAYRILKRNRYSITLAYDNNVRSRLRLLITMTNSIAGMPAFSPEATIDDGLFRVYTMHIIHFF  
KLLHLRQFRKGFDFSQAKEIKHFHTNNLTISTFKRKSAPKVRIDGDPGQQLPVKVEVIPKALKFIIPNSLP

## SeqID 316

MTTFTAKFIDQEWEPVSESGRYHMIVGEFCPYAQRQPQIARQLGLDKHISISFVDDVPSDIGLIFSQPEQVTGAKSL  
RDIYHLTDPTYKGPYTIPIILIDKTDNRIVCKESADMLRLFTTDFSDLHQEDAPVLFSQETASLIDNDIKDINNPFQS  
LMYKLAFLDKQADYDTYSKEFFTFLDQKEHLLGQRPFLGDNLSEVDIHFFTPLVRWDIAGRDLNQLKALEDPYN  
IFSWAKTLYNDFNLKTLTNPQSIKNYYLKGFGRAVRHHTIVPTGPNMVKWEK

## SeqID 317

MKKKIILKSSVLGLVAGTSIMFSSAFADQGVGVQVIGVNDFHGALDNTGTANMPDGKVTNAGTAAQLDAYIDDAQKDF  
KQTNPNGESIRVQAGDMVGASPANSGLLQDEPTVKTFTNAMNVEYGTGNGHEFDEGLAEYNRIVTGKAPAPDSNINNI  
TKSYPHAAKQEIIVANVIDKVNKQIPYNWKPYAIPNPNKSVNVGPIGIVTKDIPNLVLRKNYEQYEFLEAET  
IVKYAKELQAKNVKAIIVVLAHVPAATSKDDIAEGEAAEMMKVNVQLFPENSVDIVFAGHNHQTNGLVGKTRIVQALS  
QGKAYADVRGVLDTDTQDFIETPSAKVVAVAPGKKTGSADIQAIVDQANTIVKQVTEAKIGTAEVSGMITRSVDQDN  
VSPVGLSLITEAQLAIARKSWPDIDFAMTNNGGIRADLLIKPDGTITWGAAQAVQPFGNILQVVEITGRDLYKALNEQ  
YDQKQNFLLQIAGLRYTYTDNKEGGEETPFKVVKAYKSNGEENPDAKYKLVINDFLFGGGDGFASFRNAKLLGAIN  
PDTEVFMAIYITDLEKAGKKVSVPNKPKIYVTMKNVNETITQNDGTHSIIKKLYLDRQGNITVAQEI VSDTLNQTKSK  
STKINPVTTIHKKQLHQFTAINPMRNYGKPSNSTTVKSKQLPKTNSEYQGSFLMSVFGVGLIGIALNTKKKHKM

## SeqID 318

MAYIWSYLKRYPNWLWLDLLGAMLFVTVILGMPTALAGMIDNGVTKGDRGTGVYLWTFIMFIFVVLGIIGRITMAYAS  
SRLTTTMRDMRNDMYAKLQEYSHHEYEQIGVSSLVTRMTSDTFVLMQFAEMSLRLGLVTPMVMIFSVMILITSPS  
LAWLVAVAMPPLLGVVLYVAIKTKPLSERQQTMLDKINQYVRENLTGLRVVRAFARENFSQKFQVANQRYTDTSTG

MKKGQVNDTKQSYSLRKYKFGLASVILGPFIMVTSVPVFADQTTSVQVNNQTGTSDANNSSNETSASSVITSNNDVS  
 QASDKVNSQNTATKDITTLVETKPMVEKTLPEQGNVYVSKETEVKNTPSKSAPVAFYAKKGDKVFYDQVFNKDNV  
 KWISYKSCGVRRYAAIESLDPSGGSETKAPTPTVNSGSNNQEKIATQGNVYTFSHKVEVKNEAKVASPTQFTLDKGD  
 RIFYDQILFTIEGNQWLSYKSFNQVRRFVLLGKASSVEKTEDKEKVSPPQPARITKTGRLTISNETTTGFDILITNIK  
 DDNGIAAVKVPVWTEQGGQDDIKWYTAVTGTDGNYKVAVSFADHKNEKGLYNIHLYYQREASGTLVGVGTGKVTVAGT  
 NSSQEPLENGLAKTGVYNIIGSTEVKNEAKISSQTQFTLEKGDKINYDQVLTADGYQWISYKSYSGVRRYIPVKKLT  
 TSSEKAKDEATKPTSYPNLPKTGTYTFTKTVDVKQPKVSSPVEFNQKGEKIHYDQVLVVDGHQWISYKSYSGIRR  
 YIEI

MENWKFALSSILGHKMRAFLITMLGIIIGVASVVLIMALGKGMKDSVTNEITKSQKNLQIYYKTKEQKQKEDNFGAQQ  
AFMQGSDTNRKEPIIQESWLKKIAKEVDGVSGYYVTNQTNAPVAYLEKKAKTVNITGVNRTYLGIKKFKIKSGRQFQ  
EEDYNQFSRVILLEEKLAQRLFQTNAAALNKVVTVKNKSYLVGVVSDPEAGSGLYGSNSDGNAILTNTQLASEFGA  
KEAENIYFHLNDVSQSNRIGKEIGKRLTDISHAKDGYVDNFDMTSIVKSINTQVGIMTGVGIAIAAISLLVGGIGVM  
NIMLVSVTERTREIGLRKALGATRRKILAQFLIESMVLITILGGLIGLLLAYGGTMILIANAQDKITPSVSLNVAIGSL  
IFSAFIGIILFGLLPANKASKNLNPIDALRYE

MOYSEIMIRYGELSTKKKNRMRFINKLKNMEHVLSIYPDVSVKTDTRDRGRHVYLNGLTDYHEVAESLKEIFGIQAFSP  
SFKVEKNVDTLVKAVQEIMTSVYKDGMTFFKITAKRSDHSFELDSRALNHTLGDAVFSVLPNIKAQMKQPDINLKVEI  
RDEAAYISYENIRGAGGLPVGTSKGKMLMLSGGIDSPVAGYLALKRQVDIEAVHFASPPYTSFGALKKAHDLTRKLT  
KFGGNIQFIEVPFTEIQEEIKEAPEAYLMTLTRRFMMRITDRIENRNLVIINGESLGQVASQTLESMQAINAVT  
ATPIIRPADVMDKLEIIDIAQKIDTFDISIQPFEDCCTIFAPDRPKTNPKIKNTEQYEKRM DVEGLVERAVAGIMVT  
TIQPOQSDVDVDDLIDDLL

MARVKGGVVSRKRRKRVLKIAKGYGAKHILFRTAKEQVMNSYYYAYRDREQKRDFRKLWITRINAAARMNGLSYS  
QLMHGLKLAEIFVNRKMLADLAVNDAAAFTALADAAKAKLGK

MFKASKKL VQKNKSNHFWL VFFITL ILFLIGCYASLRFGAINFKTSDLITVLKNPLKNSNAQDVIFDIRLPRIIAAI  
LVGAAMSQAGAIMQVTRNAIADPGLLGINAGAGLALVVAYAFLGSMHYSTILIVCLLGSVISYLLVFTLSYTKQKG  
YHQLRLILGAGAMISTLFTSVGQVVTLTYFKLNRTVIGWQAGGLSQINWKMLII IAPIIILGLLISQLLAHQLTILSLN  
ESVAKALQKQTLMTAFLLLIVFLWSASSVALIGTVSFIGLIIPHFIKLFIPKDYRLLLPLIGFSGATFMIWVDLSS  
RIINPPSETPISSIISIVGLPCFLWLIRKGNL

MIKRPIHLSHDFLAVIDKEAITLDATMGNGNDTVFLAKSSKKVYAFDIQBEAIAKTKAKLTEQGISNAELILDGHE  
NLEQYVHTPLRAAIFNLGYLPSADKTVITKPHTTIKAIKNVLDILEVGGRLSLMVYYGHDGGKSEKDAVIAFVEQLP  
QNNFATMLYQPLNQVNTPPFLIMVEKLOSYLENEV

MRVHITSIYGQSPRSIALISQKLVKDVGRQLGYDEMGIYFYNDHAETHGERSTRMDGIIAGLGRGDIVVFQVPTWNS  
TEFDEFLDKLQAYGARIITFVHDIVPLMFESNFYLLDRVIDMYNRSDVILPTKAMHDYLIKGMTTSKVLYQEVW  
DHPVNIDLERPECQKVLFSFAGDIQRFPPVNDWKENIPLIYYGDGSRILNSEANVHAQGWKDDVELMLSLSKRGGFGLC  
WSEDREELVERRYSRMNASYKLSITFLAAGLPIIANHDISSRDFIKQHGLGFTVETLEEAVEKINNMEKETYDSYVEN  
VEKIAITLLRNGYITKKLLIDAVHMLYR

MSQKTFGKQLTVVDTKSRVMMHKSCKNNWVRTVMSHFNLFKAIKGRATVEADVCIQDVEKEDRLSSGNLTYLKGILAA  
GALVGGASLTSRVYADETPVVQEQSSSVPTLAEQTEVTVKTTTVQNHQDGTVSKNIIDSNSVSMSESASTSTSESVS  
MSMSGSTLTSVSESVSTALTSASESISTSASESVSCKSTSISEVSNILETQASLTDKGRESFSANQIVTESSLVTD  
GKNABVSLSLIEITKPKSELQTSKMSNESLITPEKSQVMIASDKTGNESLTPTIRLKSVIQPRSMNLMTLSSSEMDLIP  
LREVSDETEMLGKDVSSSELQKVNIALKDNLTSEPQTVKLDSSENLVNFAFSIASVNEGDFVTVKLSNLDLTQGIGTI  
LKVQDMDTETGQLLATGSYSPLTHNITYTTRYASTLNNIKARVNMPVWPDQRIISKTTKDKQCFTATLNNQVASIE  
ERVQYNSPSVTEHTNVKTNVRSLRIMKLDLDERQTETYTITQINPEGKEMYFASGLGNLYTIIGSDGTSGPSVNLLNAEV  
KILKTNKSNLTDSDMQNYDSPEDFVTSQYSYVNTDGSKITIDWKTMSISSTTSYVVLVKIPKQSGVLSTVSADINQ  
YGSKYSYGHTNISGDSANAEIKLLSESASTSASTSASTSASMSASTSASTSASTSASMSASTSASTSASTSASTSASTS

[illegible]

**SeqID 327**

MIDRKDTNRFLVSKYSPSGDQPQAIETLVNDIEGGEKAQILKGATGTGKTYTMSQVIAQVKNPPTLVIAHNKTLAQ  
LYGEFKEFFPDNAVEYFVSYYDYQPEAYVPSSDITYIEKSSVNDEIDKLRSATSSLLERNVDVIVVASVSCIYGLG  
SPKEYADSVVSLRPGQEISRDQLLNNLVDIQFERNDIDFQRGKFRVRGDVVEVFPASRDEHAFRIEFFGDEIDRIRE  
IESLTGRVLGEVEHLAIFPATHFMTNDEHMEEAISKIQAEMENQVELFEKEGKLEAQRIRQRTEYDIEMLREMGYT  
NGVENYSRHMDGRSEGEPPFTLLDFFPEDFLIMIDESHMTMGQIKGMYNGDRSRKEMLVNYGFRLLPSALDNRPLRRE  
EFESHVHQIVVVSATPGDYEMEQTDTVVEQIIRPTGLLDPEVEVRPSMGQMDLLGEINLRTEKGERTFITTLTKRM  
AEDLTDLYLKEMGVKVKYMHSDIKTLERTEIIRDLRLGVDFVLIGINLLREGIDVPEVSLVAILDADKEGFLRNERGL  
IQTIGRAARNSNGHVIMYADKITDSMRQAMDETARRRRLQMDYNEKHGIVPQTIKKEIRDLIAITKSNDSDKPEKV  
DYSLSKKEROAEIKALOOMOBAEELLDFELAAOIRDVILELKATD

SeqID 328

MKHKLKAPFTLALLSIFVFVGGKVSAETVNIVSDTAYAPFEFKSDQTYKGIDVDIVNEVAKRAGWNVNMTYPGFDAA  
 VNAVQSGQADALMAGTTVTEARKKVFNFSDTYYDTSVILYTKNNNKVTNYKQLKGKVVGVKNGTAAQSFLEENKSKY  
 GYKVKTFDTSDLMNNSLDSGSIYAAMDDQPVVQFAINQ GKAYAINMEGEAVGSFAFAVKKSGSHDNLIKEFNATAFAQ  
 MKSDGTYNIDIMDKWL GKDATKTSKGATGNANEKATPVKPSYKIVSDSSFAPFEYQNGKGKYTGFDMELIKKIAKQQG  
 FKLDISNPGFDAALNAVQSGQADGVIAGATITEARQKIFDFSPPYTS SVILAVKKGSNVKSYQDLKGKTVGAKNGT  
 ASYTWLSDHADKYNHYHVKAFDEASTMYDSMNSGSIDALMDDEAVLAYAINQGRKFETPIKGBKSGDIGFAVKKGANP  
 ELIKMFNNGLASLKKSGEYDKLVKKYLSSTASTSSNDKAAKPVDESTILGLISNMYKQLLSGIGTTLSLTLSIFAIAM  
 VIGIIFGMMVSVPSTNLRTISMIFDIVRGIPLMIVAAFIFWGI PNLIESTIGHQSPINDFVAATIALSLNGGAYIA  
 EIVRGGIEAVPSCGMEASRSLGDISYSGTKMQKVLQPQAVRLMLPNFINQFVLSLKD TTIVSAIGLVELFQGTGKI IAR  
 NYOSFRMYAIIAIMYLVIIITLLTRLAKRLEKRIK

SeqID 329

MGDKPISFRDKDGNFVSAADVWNAEKLEELFNTLNPNRKLRLEREKLAKEKG

**SeqID 330**

METVYTLNSTLNIPIKIGFGTWQLTEGEEAYKAVTHALKVGYTHIDTAQIYGNESVGRAIRDSGLARESIFLTTKKIWN  
DKHDYHLAKASIDESLQKLGVDDYIDLILLIHWPNPKALREDAWKAGNAGTWKAMEEAYKEGKVKAIGVSNFMKHHLE  
ALFETAIEIKPMVNQIILAPGCAQEDLVRFCCKGNDILLEAYSPFGTGAIFENESIKAIKAEKYGKSAQVALRWSLDNG  
FLPLPKSATPKNIEANLDIFDFOLNEDDITTLIOLDSGIKPKDPDNVSF

**SeqID 331**

MVKQGQGNVVAQNKKAHHDYTTIVETIEAGIVLTGTEIKSVRAARITLKDGYAQIKNGEAWLINVHITPYDQGNIWNQD  
 PDRTRKLLLLKKREIEKISNELKGTGMTLVPLKVYLKDGFAKVLLGLAKGKHDDYDKRESIKRREQNRDIARQLKNYNS  
 R

SeqID 332

MDHFTKLWQDFSKLPNVVAIALGGSRSRGSDFDQSSDYDLYVYCAATPDITSRKRIILNKHCHYIELNNHYWELEDNGT  
LNDGTDIDILYRNIDNFLSDLEDVVEHHNSRIGYTTCFWHNLINQCILYDPENQLQSLKERFEVSYPSQLQKQIIIQ  
NRNLLTGKLPSPYDKQIIKALKRQDFVSTHHRRTAFLDSYFDIIFALNKLTHPGEKRMISYAKKNATLLPKHFEENII  
KLCHHNSNEHTVKETLNDIIMHLDVMLKENFOHFIG

SeqID 333

MKKIIYGLACVSIILTLSCESIERSLKGDRYVDQKLAENSSKEATEQLNKKTKQALKADKKAFFQLDKAVAKNEAQ  
 VLIKTSKGDINIKLFPKYAPLAVENFLTHAKEGYINGLSFHRVIKDFMIQSGDPNGDGTGKSIWNSKDKKDSGNG  
 FVNEISPYLYNIRGSLAMANAGADTNGSQFFINQSQQDHSKQLSDKKVPKVIKAYSEGNGPSLDGGYTVFGQVISG  
 METVDKIASVEVTKSDOPKEKITITSIKVIKDYKFK

SeqID 334

MKIGIIAAMEEELKLLVENLEDKSKQETVLNVDYSGRYGEHELVLVQSGVGKVMSSAMSVAILVESFKVDALINTGSA  
 GAVATGLNVGDVVADTLVYHVDLTAFGYDYGQMSMQPLYFHSKDTFVSTFEAVLSKBEMTSKVGLIATGDSFLAG  
 QEKIDVIKGHFPOVLAVEMEGAATAAOAAOATGKPFVVVRAMSDTAHDANITFEDEFITGAKRSAOVLMAFLKAL

SeqID 335

MEKRLSLGALVLA STVLLAACGNVGGGASSTGTGKIGKDIKVGNWELSGNVSSYGNMKNAGDLAVKEINAAGGVGG  
KKLKVLSQDNKSENABAATVATNLVTKGANVIIGPATSGAAASSTPKVNAAAVPMIAPAATQDNLVYGS DGTNLNQY  
FFRATFVDNYQGGKLLSQYATDNLKAKKVVLFYDNSSDYSGVAKSEKESYSGKIVDSMTFSAGDTDFQASLTCLKGK  
EYDAIVMPGYTETGLIVKQARDLGISKPVLPDGFDPKPVQSATPVGASNVYYLTGFTTQGSTKAKAFHDHYVKA  
YGEPSMFSALS YDAVYMAAKSAKAKTSIDLKALAKLDFKGVTKMSIDKNHNVVKSAYVVKLDDGKTSVNII  
SAK

## SeqID 336

MENHNSIKQTYGLMTTIAMIVGVVIGSGIYFKVDDILKFTGGDVFLGMVILVLGSSFSIVFGSLSSISELAIRTSSESG  
IFSYYEKYVSPALAATLGLFASFLYLPTLTAVSWAAFTYLGESSLESQIILA AVYILALS LMNIFAKRIAGGFQ  
SLTTFVKMIPVLIALIGAFWSDKAPQLPQHLTAIQPSNVGWSWVSGLVPLYFAYDGTWTFVSIAP EVKNPKNLPL  
AFVIGPALILLSYLAFFYGLTQILGASFIMTTGNDAINYAANIFGPSVGRLLSFIVILSVLGVANGLLLGTMRLPQ  
AFAERGWIKSERMANINLK YQMSLPASLTVTAVAFWLFVHFVMTKFNLLPGSDISEIAVVFNTSLIILYVLVLSL  
YLKDKIKNFTGLVSPILAILGGLILFIGSLLSNFFTVLIFQCFCLLFCLICHYIYQKNNPKTHE

## SeqID 337

ITEFNDDQHSNHDQKSFKEQILAELEEANRLRKLREEELYQKEQEAKEAARRTAQIMADYEAQRLKDEQBARAKALE  
TKQRL EEQEKARIEAKLLAEAAAREEERRQAEQALASQEBQVINQGMPSRELD SGSKSSEFRTTENVDPDIDLKADKT  
DVATAVPNQETEEIFLVRATDIPTEGENVKLGETSELEPVAKEPPIRVEDLSKEEDIALSAKNKHNRERRQKADNV  
AKRIARILLSTIILVLLLTAFVGYRFVDSAIPVDSNSNKFVQVEIPIGSGNKLIGQILEKAGVIKSATVFNYYSKF  
KNYSNFQSGYYNLKKSMTLDQIAAELEKGGTAEPKTPALGKILITEGYTIKQIAKAIESNKIDTKTTSTPYKADDFL  
KLVDQETFIKMKVAKYPNLLGSLPDKSKAIYQLEGYLFPATYNYKDTTLEGLVEDMISTMNTKMAPYNTIKAKNM  
SVNDVLTLSLVEKEGSTDEDRRKIASVFYNRLSAGQALQSNIAILYAMGKLGDKTSLAEDAQINTSIKSPYNIYTN  
TGLMPGVPDSEPSISAEATIKPASTDYLYFVADVKTGNVYAKDFETHKANVEKYINSQIN

## SeqID 338

MSRMIPGRIRNQGI ELYEQGLVSLISQEGNLLKAKVGDCQIEYSLVTEETKCS CDF FARKGYCQH LAAL EHLKNDP  
EGKAILSKVQVQ QESQOETKKKTSFGSVFLDSL IINEDDTIKYQLSAQGEQNPYANDIWWTLKIRRLPDDRSYVIRD  
IKAPLNTVRKEAYYQIGKQYFETLSLIQFDETSQELIEFLWRILPSSHSSKIDLEFILPNQGRHLSLTRGFFEEGVTL  
MNALENFSFESDFHQFNHLYFKELEGEDHLYQFKVIVHRQSIELEIKEKDLKPLFANSYLFYRDTFYHLNLKQEKMV  
TAIRSLPIEGDLAKHIHFDLDDQDKLAHLLDFKEIGLVDAPRSFSIHDFKVNFEFDINSQNEILLQMVFDYGNDLT  
VHNROQLEQLTFASHFKHEEKIFKLLERYGFAPHFSTSHPAYSAQELYDFYTYMLPQFKMGTVSLSAKLESYRLIE  
RPQIDIEAKGSLDISFDFSDLLENDVDQALVALFDNNPYFVNKSGQLVIFDEETKKVSATLQGLRARRAKNGHIEL  
DNIAAFQLSELFAHQDNVSFSQHFFYQLIEDLRHPEKFKIPGLSVSASLRDYQLTGVRWLSMLDHYGFAGILADDMGL  
GKTLQTTISFLSTKLTRDSRVLILSPSSLIYNWQDEFHKFAPD VDAVAYGSKIRRDEIIAERHQVIITSYSSFRQDF  
ETYSEGNYDYILIDEAQVMKNAQTKIAHSLSFEVKNCFALS GTP IENKLEIWSIFQIILPGLLP GKKBFLKLNPK  
QVARYIKPFVMRRRKKEVLPPEL PDLIEMNYPNEMTDSQKVIYLAQLRQIQESIQHSSDADLNRRKIEILSGITRLRQ  
ICDTPRLFMDYDGESGKLES LHQLLTQIKENGHRALIFSQFRGMLDIAEREMVAMGLTTYKITGSTPANERHEMTRA  
FNAGSKDAFLISL KAGGVGLNLTGADTVVLIDLWNPAVEMQALSAHRLGQKENVEVYRLITRGTIEEKILEMQET  
KKHLVTTVL DGNETHASMSVDDIREILGVSK

## SeqID 339

VLLTEIKKSPEGLYFDKKIDIKESLMERHSEIMDISDIQVSGHVYREDGLYLLDYNMAYDITLPSSRSMPVVLSEK  
QTINEVFIEAENVSTKKELVDQDLVLILEEDDINLEESVIDNILLNIPLRVLA ADEVGVEADLSGKNWSLMTEKQYE  
EKQAKEKEKSNPFAALEGMFDS

## SeqID 340

MEVKTAEIWMHTFNQKIQSNKDYLSELDTPIGDGDHGGNMARGMTAVIENLDNNEFSSAADVFKTVMQLLSKVGG  
SGPLYGS AFMGITKAEQSESTISEALGAGLEMIQKRGAELNEKTMVDVWHGVIEAIEKNELTEDRIDSLVDATKGM  
KATKGRASYVGERSLGHIDPGSFSSGLLFKALLEVGGV

## SeqID 341

MQDKLMIRGAHNLKNISVDIPRDKLVVVTGLSGSGKSSLAFTIYAEGQRRYVESLSAYARQFLGNMEKPDVDSI  
DGLSPAISIDQKTTSKNPRSTVGTVTEINDYLRLLYARVGTPTYCINGHGAITASSVEQIVDKVLALPERTKMQILAP  
IIRRKKGQHKSTFEKI QKDG YVRVRIDGDIHDVTEVPELSKSKMHNIDIVDRLINKEGIRSRLFDSVEAALRLSDG  
YVIDTMDGNELLFSEHYSCECGFTVPELEPRLFSFNAPFGSC TCTCDGLGKLEVDIDLVIPDKSKTLREGALVPW  
NPISSNYYPTMLEQAMTQFDVDMPTPEFKLSKAEQDLALYSGGEREFHFHYINDFGGERNIDLPFEGVNNINRRYH  
ETNSDYTRNVMR EYMNELKNCNTCHGYRLNDQALCVRVGEEGLNIGQVSDLSIADHLELLETLRSSNEQLIARPII  
KEIHDRLSFLNNVGLNLYNLRSAGTSLGGESQIRLATQIGSNLSGVLYVLDEPSIGLHQRDNDRLIDSLKKMRDL  
GNTLIVVEHDEDTMMAADWLIDVGPAGAFGGEIVASGTPKQVAKNTKSITGQYLSGKKVIPVPSERRVGNRFL E I  
KGAENNLQNLVDVKFPLGKFI AVTGVSGSGKSTLINSILKKAQAQKLNNSDKPKYVVSLEGIEYVDR LIDIDQSPI  
GRTPRSNPATYTG VFDDIRDLFAQTNEAKIRGYKKGRFSFNVGGRCESSCGDGIK IEMHFLPDVYVPCVCHGTR  
YNSETLEVHYKEKNIAQILDMTVND AVTFFAAIPKIARKLQTIKDVGLGYVTLGQPATTL SGGEAQRMKLASELHKR  
STGKSLYILDEPTGLHADDIARLLKVLDRFVDDGNTVLVIEHNLDVIKTADHIDLGP EGGIGGGQIVAIGTPEEV  
AENPKSYTGYLLKEKLIAR

## SeqID 342

MWPEDRIASFRRTLLGWYDQEKRDLPWRRTTNPYYIIVWSEIMLQQTQVNTVIPYYKRFLWFPPQIKDLADAPEEQLL  
KAWEGLGYYSRVRNMQKAAQVMVDFGGIFPHTYDDIASLKGIGPYTAGAIASISFNLPEPAVDGNVMRVMARLFEV  
NYDIGDPKNRKIFQAIMIILIDPDRPGDFNQALMDLGTDIESAKTPRPDESPIRFFNAAYLNGTYSKYPIKNPKKKP  
KPMRIQAFVIRNQNQGYLLLEKNTKGRLLGFWSPFIIETSPLSQQLDLEDDNQSNPIIWQTONETTFQREYQLKPQWT  
DNHFPNIKHTFSHQWTIELIEGVVKATDLPNAPHLKWAIEDFSLYPFATPQKKMLETYLKQKNA

## SeqID 343

LIEITWTVKYITEFIATAFLIILNGAVANVDLKGTKGNNSGWIIIAIGYGLGVMPALMFGNVSGNHINPAFTLGL  
AFSGLFPWAHVQGYILAQILGAMFGQLVVMVYQPYFVKTENPNHVLGSGFSTISALDDGQKSSRKAAYINGFLNEFV  
GSFVLFFGALALTKNYFGVELVGKLVQAGYDQTTAATRISPYVTGSLAVAHLGIGFLVMTLVASLGGPTGPALNPAR  
DLGPRIVHRLLPKQILGQAKEDSKWWYAWVPVLAPIVASILAVALFKLLYL

## SeqID 344

MSSYWNYPPELKKNIDETNQLIQERIQVRNKDIEAALSQLTAAAGKQLRPAFFYLFSQLGNKENQDTQQLKKIAASL  
EILHVATLIHDDVIDDSPLRRGNMTIQSKFGKDIAVYTGDLFTVFFDLILESMADTFPMRINAKSMRKIILMGELDQ  
MHLRYNQQQGIHHYLRAISGKTAEFLKASKEGAYFGGAKEVVRLAGHIGFNIGMTFQILDDILDYTADKKTFNKP  
VLEDLTQGVYSLPLLLAIEENPDIFKPILDKKTDMATEDMEKIAYLVSHRGVDKARHLARKFTEKAIKSDINKLPQN  
SAKKQLLQLTNYLLKRTI

## SeqID 345

MFKIPLEFKELKTDQWVKPFFKQYKVS LVIALFLGFMTFFSASALMFNSGYLISKSSASLPSNILLVYVPIVLTRAFGI  
GRPVFRYIERLTSHNWVLRMTSQLRLKLYHSLESNAIFMKRDFRLGDMGLLAEDINYLNLYLRTIFPTIIAWLLY  
SFIIATGFFSLWFALMMLLYLAIMIFLPLWSILANGARQTREKELKNHLYTDLTNDNLGDISDWIFSQRGQYVAL  
HERSESELMAIQKKIRSFNNRRALIVELVFGFLAILVLIWASNQFIGHRGGEANWIAAFVLTVFPLSEAFAGLSAAA  
QETNKYSDSIHRLNELSEYFETTONQLPNKPYDFSVKNLSFOYKPKQEKWVLHHLDDLDIKEGEKIAILGRSGSGKST  
LASLLRGDLKASQKITLGGADVSIVGDCISNYIGVIOQAPYLFNTTLLNNIRIGNQDASEEDVWKVLERVGLKEMV  
TDLSDGLYTMVDEAGLRFSGGERHRIALARILLKDVPIVILDEPTVGLDPTEQALLRVFMKELEGKTLVWITHLK  
GIEHADRIIFIENGQLELEGGSPQELSQSSQRYRQLKAADDGDL

## SeqID 346

MKKLITEKKVNNVSTVNYLKLGLVSAMFAGGAFVALGSTQGVSASTFTAPQATHPKAERQLTDSEIYERAQKQVLPK  
YIQGSLSGIILNQHSTLYKQONAAVTPQVSSPKAERQLTDSEIYERAQKQVLPKYIQGSLSGIILNQHSTLNA

## SeqID 347

MEENMNIKQLKSKTMLGTVALVSASFFASTNADANTYNYAVDVDYLASAEETIAQAHPASNTFPLGQCTWGVKEMATW  
AGNWWGNGGDWAASAASAGYTVGTQPRVGSIVCWTGDSYGHVAYVTAVDPTVTKIQVLESNYAGHQWIDNYRGWFDP  
QNTATPGVVSYYIPN

## SeqID 348

MKINQMKKDELFEFGFYLIKKAIEVRKTRAGKDFIAFTFRDDTGEISGNMWDATYNVEEFVAGKIVHMKGRREVYNGT  
POVNIQITLRLNIDGEPNDPRDFKEKPPINVDNVREYMEQMLFKIENATWQRVVRALYRKYNKEFFTYPAAKTNHHA  
ESGLAYHTATMVRLADSIGDIYPELNKSLMFAGIMLHDLAKVIELSGPDNTEYTIRGNLIGHISLIDEELTKILAE  
NIDDTKEEVTVLRHVILSHHGQLEYGSPVRPRIMEAEIIMIDNIDANMMMTTALNRVNEGEMTNRIIFAMDNRSFY  
KPNIK

## SeqID 349

MLVDKKWRPESDASYFACPKCQNPLIKESNSLKCSDNHCFDLSKFGYVNLGGKKIDEHYDKKSFENRQLVLENGYY  
NHILEAISKVLNNSQFHSVLDIGCGEGFYSRQLVNKYEKTFLAFDISKDSIQLAAKSDQSRLVKWVVSDDLNLPIQ  
DSSIDIILDI FSPANYKEFRRLVSDDGILVKVPVAEHVQELREKASQYLKQKQDYSNQKILDHFRNFELISEQKV  
QSYNCSQQRQAFIDMTPLLFVSVDKTTIDWASISEITVGALIVIGKRSVSK

## SeqID 350

MCLICQRIEMIERNENPYFVKEYETGYLVLDGHQYFQGYCLFSLKKHVTELHELPRDWRNQYLSEADASEIVAKAF  
RADKMNIESLGNGDAHLHFHLFPRKTGDLRNYGHNGKGPVWVYPFEKMYADSVRATGAIEKLEKLLDVLG

## SeqID 351

MFSDLRKKFVFLTMSILIVVVLFLFAVSNRYNQYWDEYDAYRIVKLVAKNLYLGIPGDEPIALVTIDNQMKVQIQSN  
NTDLTNDVIEKSSLLKLEQGKKSRKWSFIYSIKEYKDKTYTIAIMDLASYEVYPYARRFLILVFTIFGFCLLAAVSL  
YLSRFIVGPVETEMTREKQFVSDASHELKTPIAAIRANVQVLEQQIPGNRYLDHVVSSETKRMEFLIEDLLNLSRLDE  
KRSKVNFKKLNLSVLCOEVLITYESLAYEEEEKCLNDTIEDDVWIVGEEESQIKQILILLLDNALRHSLSKSEIQFSLK  
QARRKAILTISNPSAIYSKEVMDNLFERFYQAKDDHADSLSFGLGLSIAKAIVERHKGRIIRAYQEKDQLRLEVQLPI  
DGFWTNTMIN

## SeqID 352

LIILDKKSYDLLFYLLKLEBPETVMAIANALNQSRKVVYHLEKINDALPSDVPQIVSYPRVGILLTEKQKAACRLL  
LDEVTDSYVMKSSERLQLSLVSIVVAKDRITIDRLMQLNDVSRNTIILNDLNLRLSELAEKEYNLQLQSTKCRGYFL  
DGHPLSIIQYLYKLLDDIYHNGSSSFIDLFNHLKSQAFGASTYFSKEVLDYFHHYLFISQSRSLGKKINSQDQGFMIQ  
ILPFIILMAYRKMRLSPEVQTSINSDFSLVWQRKEYEIAKELADELEENFQLSLDEIEVGLVAMLMLSFRKDRDNHLE  
SQDYDDMRATLTSFLKELEERYHLHFVHKKDLLRQLLTHCKALLYRKRYGIFSVNPLTEHIKDKYEELFAITSSSVK  
LLEKAWQIKLTDDDVAYLTIHLGGELRNSQQSPNKLKLVIVSDEGIAIQKLLKQCQRYLTNSDIEAVFTTEQYQSV  
SDLMHVDMVSTSDALESRFPMVLVHPVLTDDDIIRLIRFSKKGNCANSNQFTNELEKTIAQYVKEDSERYVLKSKI  
EKLIHQELLQDVLPLQSTVC

## SeqID 353

MKYFLDTADVSEIRRLNRLGIVDGVTTNPTIISREGRDFKEVINEICQIVDGPVSAEVTGLTCDENVTEAREIAKWS  
PNVVVKIPMTEEGLAASVQLSKEGIKTNVTLIFTVAQGLSAMKAGATFISPFVGRLEDIGTDAYALIRDLRHIIDFY  
GFQSEIIAASIRGLAHVEGVAKCGAHATIPDKTFASLFTHPLTDKGIETFLKDWDSPKKK

## SeqID 354

MSHYSIKLQEVFRLAQFQAARYESHYLESWHLLLAMVLVHDSVAGLTFAYESEVAIEEYEAATILALGRAPKEEIT  
NYQFLEQSPALKKILKLAENISIVVGAEDVGTEHVLLAMLVNKDLLATRIELVGFGRQDDGESVRMVDLRKALERH  
AGFTKDDIKAIYELRNPKKAKSGASFSDMMKPPSTAGDLADFTRDLSQMAVDGEIEPVGIRDKESRMVQVLSRKT  
NNPVLVGDAVGKTAALAYGLAQRIANGNIPYELRDMRVLELDMMSVAVAGTRFRGDFEERMNQIIADIEEDGHIILFI  
DELHTIMSGSGSIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVLVEEPNLEDAYEILLGL  
KPAYEAFHNVTISDEAVMTAVKVAHRYLTSKNLPDSALDLDDEASATVQMMIKKNAPSLLTEVDQAILDDDMKSASK  
ALKASYKGGKKRPIAVTEDHIMATLSRLSGIPVEKLTQADSKKYLNLKELHKKRVIGQDDAVTAISRARRNQSGIR  
TGKRPIGSGFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASHLNGAPPGYVGYDEGGELTEKVRNK  
PYSVLLFDEVEKAHPDIFNVLLQVLDGVLTDSSRGKVDFSNTIIIMTSNLGATALRDDKTGVFGAKDISHDYAMQ  
KRIMEELKKAYRPEFINRIDEKVVFHSLSQDNMREVVKIMVKPLILALKDKGMDLKFQPSALKHLAEDGYDIEMGAR  
PLRRTIQTVQVEDHLSSELLANQVKEGQVIKIGVSKGKLFDAKS

## SeqID 355

MVLDEKIKALQYLDLLESIDIVLQADLGDNDSQKVKDFLDEIVAMSDRISLESTHLKRQPSFGIAKKGHESRVIF  
SGLPMGHEFTSFILALLQVSGRAPKVEDIIRIKIGIEKTINLETYVSLTCHNCPDVVQAFNIMAVLNPNIHTMIE  
GGMYQDEVKSKGIMSVPTVYKQEEFTSGRATIEQLLEQLDGLDAAEFADKGVYDVLVIGGGPAGNSAATYAARKG  
LKTGILAEFTFGGQVIETVGIENMIGTLYTEGPKLMAQIEEHTKSYDIDIISQLATGIEKKELVEVTLANGAILQAK  
TAILALGAKWRNINVPGEIEFRNKGVTYCPHCDGPLFEGKDVAVIGGGNSGMEALDLAGVTKHVTVLEFLPELKAD  
QVLQERAAKTDNLTLKNVATKDIVGEDHVTGLNYTDRDTNEEKHIDLEGVVFQIGLVPSTSWLKDSGIELNERQEI  
VVDKFGSTNIPGIFAAGDCTDAAYKQIIISMSGGATAAIGAFDYLRQ

## SeqID 356

MIKYQDDFYQAVNGEWAKTAVIPDDKPRTGGFSDLADDIEALMLSTTDKWLADENKPSDTILNHFAFHKMTADYQK  
REEVGVSFVPLPIIEYKGLQSFSEFASKVAEYEELEGKPNFPPGVAPDFMNAQLNLWAEAPGIIIPDTTYSEDNE  
KGKELLAFWRKSQEDLPLFLGLSEQEIKDILDKVLALDAKLAQYVLSREESSEYVKLYHPYNWEDFTKLAPLPLDA  
IFQKILGQKPKVIVPEERFWTEFASDYYSSESNEWELLKADLILSAANAYNAYLTDDIRIKSGVYSRALSQTPOAMDK  
KKAAYLASGPYNQALGLWYAGEKFSPEAKADVEHKIATMIDVYKSRLEKADWLAQSTREKAIMKLNVTIPHIGYPE  
KLPEYTKKIIDPKLSLVENATNLDKISIAYGWSKWNKPVDRSEWHMPAHMVNAYYDPPQONQIVFPAILQEPFYAL  
EQSSSANYGGIGAVIAHEISHAFDTNGASFDEHGSLNNWWTDEDFAFKKLTDKVVEQFDGLESYGAKVNGKLTVSE  
NVADLGGVACALBAQRESDFSARDFFINFATIWRMKARDEYMQMLASVDVHAPAQWRTNITVTNFEFHFKEFDVKD  
GDNMWRPVEKRVIIW

## SeqID 357

MSKILFFGEPLIRITPKENDYFADSISTKLFYGGSEVNTARALQGFGQDTKLLSALPNNPIGNSFLQFLKAQGIDTH  
SIQWGERVGLYFLEDSFACRKGEVVYDRDHSSLHDFRINQIDFDQLFEGVSLFHFSGITLSLDESIOEITLLLLKE  
AKKREITISLDLNFRLSKLISPKNAKILFSQFATFADICFGIEPLMVDSQDTTFFNRDEATIEDVKERMISLINHDFD  
QVIFHTKRLQDEWGRNHYQAYIANRKOEFVTSKEITTAVNQIRIGSGDAFVAGALYQLLQHSDSKTVIDFAVASASLK  
CALEGDNMFETVTAVNKVLNQSKDIIR

## SeqID 358

MKSRRKDKLVRLTTTLLVFLGGLGVWFYNYKNDNVEPTVTSASDQTTTFTIQTISPTAIEISKTYDLYASVLLAQAIL  
ESSSGQSDLSKAPNYNLFGIKGEYKGSVQMPTLEDDGKGNMTQIQAPFRAYPNYSASLYDYAELVSSQKYASVWKS  
NTSSYKDATAALTGLYATDTAYASKLNQIIETYSLDAYDK

## SeqID 359

MADVKNVNNEDSRGQKQDLKAKLFHIKIGSVPLPVYVCLALLILLAGFLQKLPVNMLGGFAVILTMGWFLGTIGASI  
PGFKNPFGGPAIISLLVPSILVFFNLINKNVLESTNMLMKQANFLYFYIACLVSGSILGMNRKMLIQGLLRMIFPMLL  
GMVCAMMVGTFFVGVLGLEWRHTLFYIVTPVLAGGIGEGILPLSLGYSSITGVASEQLVAQLIPATIIIGNFFAILCT  
ALLNRLGEKKPHLSGQQLVRLNKGEDMSDIIADHSGPIDVKKMGGLVLTACSLFIFGHLLQQLTGFPFVLMIVAA



AILKYINVI PRETQNGAKQLYKFISGNFTFPLMAGLGLLYIPLKDVVATLSIQYFIVVISVVFVVISVGGFFVSRFLN  
MNPVEAGIISACQSGMGGTGDVAILSTADRMNLMPPAQVATRLGGAITVITMTAILRMLF

## SeqID 360

RGKKAGKYTTSDGYIFDAKDIKDTGTGYVIPHMTHEHWVPKDLSESELKAAQEFLSGKSEANQDKPKTGKTAQEI  
YEAIEPKAIVKPEDLLFGIAQATDYKNGTFVIPHKDHVHYVELKWFDEEKDLLADSDKTSLEDYLATAKYMMHPE  
KRPKVEGWGKDAEIIYKEKDSNKADKPSAPTNDKSTSNSSDKNLSAAEVFKQAKPEKIVPLDKIAAHMAYAVGFEDD  
QLIVPHHDHYHNVPMAWFDKGLWKAPEGYTLQQLFSTIKYYMEHPNELPKEKGWGHDSHDNKGSNKDNKAKNYAPD  
EEPEDSGKVTHNYGYFDVNGKSGDEEPEKQDESELDVEYELGMAQNAKKYGMQRQSFEKQLIQLSNKYSVSFESFNY  
INGSQVQVTKKDGSKVLVDIKTLTEVK

## SeqID 361

MNRKKTVIIISALSVALFGTGVGAYQLGSYNAQKSDNSVSVYKTDKSDSKAQATAVNKTPDQISKEEGISAEQIVVKI  
TDDGYVTSBGDHYHYNGKVPYDAIISEELIMKDPSYVFNKADVINEVKDGYIIVKNGKYLYLKEGSKRTNVRTKE  
QIQKQREWSKGGSGKSGESGKHSSAKTQALSASVREAKASGRYTTDDGYVFSPTDVIDDMGDAFLVPHGDHFHYIPKA  
DLSPSELSSAAQAYWNRKTGRSGNSSKPSNSSSYIHASAPSGNVSTGRHANAPISIPRVTHANHWSKPAGNHATAPKH  
HAPTTPKINKDSALDKMLKRLYAQPLIYARHVESDGLVYDPAQVNAFTAIGVSI PHGNHFFHIHYKDMSPLELEATRM  
VAEHRGHHIDALGKDKSTKPKHISHEPNKEPHTEEHHAHTPKDQRKGKPNSSQIVYSAQEIIEAKKLVTNQHLMVT  
FLMPKILKKIQVQVMSFHI

## SeqID 362

MAKFGFLSVLLEEELDKHLQYDFAMDWDKKNHTVEVTFILEAQNSSAIETVDDQGETSSSEDIVFEDYVLFYNPVKSRF  
DAEDYLVITIPYEPKKGLSREFLAYFAETLINEVATEGLSDLMDFLTDDSIIEFGLSWDTDAFENGRAELKETEFYPY  
RY

## SeqID 363

MNTKQRFSSIRKYKLGAVSVLLGLTFFLGGITNVAADSVINKPSDIAVEQQVKDSPTSANETPTNNTSSALASTAQD  
NLVTKANNSPSTETQPVASHSQATETFSVPANQPVSTQEVSKTPLTKQNLAVKSTPAISKETPQNIDSNKIITVPK  
VWNTGYKGEFTVVAIIDSGLDINHDLQNDSTKAKYQNEQQMNAKAKAGINYGKWNKVI FGHNYVDVNTTELKE  
VKSTSHGMHVTSLATANPSKKDTNELIYGVAPEAQVMFMRVFSDEKRGTPALYVKAIEDAVKLGADSINLSLGGAN  
GSLVNADDRLIKALEMARLAGVSVIAAGNDGTFGSGASKPSALYPDYGLVGSPPSTAREAISVASYNNTTLVNKVFN  
IIGLENNRNINGLAAYADPKVSDKTFEVGKQYDYVFGKGNNDNDYKDKTLNGKIALIERGDIITFKKVVNAINHGA  
VGAIIFNNKAGEANLTMSLDPEASAI PAIFTQKEFGDVLAKNNYKIVFNNIKNKQANPNAGVLSDFSSWGLTADGQL  
KPDLSAPGGSIYAAINDNEYDMMSGTSMASPHVAGATALVKQYLLKEHPELKKGDIERTVKYLLMSTAKAHLNKDTG  
AYTSRQGGAGIIDVAAVQTGLYLTGGENNYGSVTLGNIKDKISFDVTVHNINKVAKDLHYTTYLTNDQVKDGFVT  
LAPQQLGTFGTGTIRIEPGQTQTTIDIDVSKYHMLKKVMPNGYFLEGYVRFTDPVDGGEVLSIPYVGFKEGFQNL  
EVLEKSIYKLVANKEKGFYFQPKQTNVEPGSEDTALMTTSSEPIYSTDGTSPILQKALGSYSIDGKWILQLDQKG  
QPHLAISPNDQNDQDAVAVKGVFLRNFNLRKAVYRADDVNLQKPLWVSAPQAGDKNYSGNTENPKSTFLYDTEWK  
GTTTIDGIPLEDGKYKYVLTYYSDVPGSKPQQMVFDITLDRQAPTLTATYDKDRRIFKARPAVEHGESGIFREQVCY  
LKKDKDGHYNSVLRQGGEDGILVEDNKVFIKQEKNGSFILPEKVNDFSHVYTTVEDYAGNLVSAKLEDLINIGNKNG  
LVNVKVSFPELNSNVDIDFSYSVKDDKGNIIKKQHHGKDLNLLKLPFGTYTFDLFLYDEERANLISPKSVTVTISEK  
DSLKDVLFKVNLLKKAALLVEFDKLLPKGATVQLVTKTNTVVDLPKATYSPTDYGNIPVGDYRLNVTLP SGYSTLE  
NLDDLLSVKEDQVNLTKLTLINKAPLINALAEQTDIITQPVFYNAGTHLKNNYLANLEKAQTLIKNRVEQTSIDNA  
IAALRESRQALNGKETDTSLLAKAILAEITEIKGNYQFVNASPLSQSTYINQVQLAKNLLQKPNVTQSEVDKALENLD  
IAKNQNLNGHETDYSGLHHMIIKANVLKQTS SKYQNASQFAKENYNNLIKKAELLSNRQATQAEELLNQIKATEQ  
ELDGRDNRVYSQSLNDNDSLNTPINPPNPQALIFKKGMTKESEVAQKRVLGVTSTQDNQKVTNKLPKTGE  
STPKITYTILLFSLSMLGLATIKLSIKRE

## SeqID 364

MNNNEKKVKYFLRKTAYGLASMSAAFAVCSGIVHADTSSGISASIPHKKQVNLGAVTLKNLISKYRGNDKAIATILLS  
RVNDFNRASQDTLPQLINSTEABIRNIIYQGQIGKQNKPSVTTHAKVSDQELGKQSRRSQDIKSLGFLSSDQKDIL  
VKSISSSKDSQLILKFVTQATQLNNAESTKAKQMAQNDVALIKNISPEVLEEYKEKIQRASTKSQVDEFVAEAKKV  
NSNKETLVNQANGKKQEI AKLENLSNDEMLRYNTAIDNVVKQYNEGKLNITAMNALNSIKQAAQEVAQKNLQKQYA  
KKIERISSKGLALS KKAKEIYEKHSILPTPGYVADSVGTYLNRFRDKQTFGNRSVWTGQSGLEAKKMLDEVKLL  
KELQDLTRGTKEBKPDVKPEAKPEAKPNIQVPKQAPTEAAKPALSPEALTRLTTWYNQAKDLLKDDQVKDKYVDIL  
AVQKAVDQAYDHVEEGKFTTTDQANQLANKLRDALQSLKDKKVKAKPEAKPEAKPEAKPEAKPEAKPEAKPEAKPE  
AKPDVKPEAKPDVKPEAKPEAKPEAKSEAKPEAKLEAKPEAKPATKKSNTSGNLAAKKA IENKYSKKL PSTGEAA  
SPLLAIVSLIVMLSAGLITIVLKHKK

## SeqID 365

MAKDIKFSADARSAMVRGVDILADTVKVTGLPKGRNVLEKAFGSPLITNDGVTIAKEIELEDHFENMGAKLVSEVA  
SKTNDIAGDGTATATVLTQAI VREGLKNVTAGANPIGIRRGIEATVSAAVEELKEIAQPVSGKEAIAQVAAVSSRSE  
KVGEYISEAMGRVGN DGVTIEESRGMETELEVEGMQFDRGYLSQYMTVDNEKMVSELENPYILITDKKISNIQEI  
LPLLEVLKTRNPLLIADDDVGEALPTLVLNKIRGT FNVVAVKAPGFGDRRKAMLEDIATLTGGTVVTEDLGLDLK  
DATMQVLGQSAKVTVDKDSTVIVEGAGDSSAIANRVAI IKSQMEATTSDFDREKLQERLAKLAGGVAVIKVGAATET

ELKEMKLRIEDALNATRAAVEEGIVSGGGTALVNVIEKVAALKLNGDEETGRNIVLRALEEPVRQIAYNAGYEGSVI  
IERLKQSEIGTFGNAANGWEVDMVTGTIIDPVKVTRSAQNAAVASLIL'TTEAVVANKPEPEAPTAPAMPSPMMGG  
F

SeqID 366

VVENLEKPIGVSYKNSPSMSKRTAIRMKSSRFSILLYSVLSTLLAIANPLLTYFANGLOTQNLTYTGLMMTKGQIPY  
SDVFATGGFLYYVTIALSYLLGSSIWLLIVQFIAYVYVSGIYFYKLVYYVAQSEIVSIGMTLIFYIMNIVLGFEGMYP  
IQWALPFMLISLWFLIKFCVDNIVDEAFIFYGILAAFSFLIDPQTLLIFWLCSFVLLTATNIKQKQSLRGFYQFLCVV  
FGMILLIAYTVGYFMFNLISSYIDKAIFFYPFTYFARTNHSFLLSLAIQIVVLLGSGCLFGLWDFIQNRKKASYQIG  
LNFIACIFIYAIMAIFSRDFNLVHFLPALPFGLLLTSNKITILYQKVIDRRSHRRQYFSGKSLIVDLFVKTYYP  
LLLVSLSIGLLVYNTYQNVTLSEKERRDISHYLTTKIDRDGKIYVWDKVASIYSQTRLKSASQFVLPHTAQKNNEK  
ILKDELLQHGAKYFILNKNELKPNELKSDIKKHYYQEVPLSNITHEFVLYRFK

SeqID 367

MAKPTISPGMQQYLDIKENYPDAFLLFRMGDFYELFYDDAVKAAQILEISLTSRNKNAEKPIPMAGVPYHSAQQYID  
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LLTDFESVRSEILNLKAREIVVGQYLTDEKNHLLTKQMNLLSYEDERLNDIHLIDEQLTDLEISAAEKLLQYVHRT  
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RQDIIOVFLDYFFERNDLTESLKGVDIERLASRVSGKANPKDLLQLGQTLSQLIPRIKMILOSFNQPELDIIVNKI  
DTMPELESINTAIPEAQATITTEGNIKSGFDKQLDNYRTVMREGTGWADIIEAKERAASGIOTLKIDYNKKDGY  
FHVTSNLSLVPEHFFRKATLKNSEYGTAEELAKIEGEMLEAREQSSNLEYDIFMRVRAQVESYIKRLQELAKTIAT  
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SeqID 368

MLKLDLTKIKEAILIAFGVALYTFGVKFMNANHLAEGGISGVTLIIHALFGVNPALSSLLLNIPILFILGARILGK  
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QGAYSGREHDVLYVALNPSEVRDVKEIMADLDPDAFISVINVDEVISSDFKIRRRNYDK

SeqID 369

MKRSMYAGVRVSEHIGTSITLKGWVGRRRDLGGLIFIDLRDREGIMQLVINPREEVAASVMATAESLRSEFVIEVSGV  
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SeqID 370

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SeqID 371

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SeqID 372

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MSIVDQAEVVRKVRSSENGVIDPFFLTDPDNTVSEAEELMNYRISGVPIVETLENRKLVGIIITNRDMRFISDYKQL  
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SeqID 373

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SeqID 393

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SeqID 410

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CSKGLV

SeqID 411

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ENCS

SeqID 412

GHSNGIKEGNGGIFPVFCIAITATRFRTINGFCNRINPCLCHFIVTLLSCCNRKS

SeqID 413

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SeqID 414

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SeqID 415

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SeqID 416

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SeqID 417

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SeqID 418

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SeqID 420

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SeqID 421

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SeqID 422

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SeqID 423

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SeqID 424

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SeqID 425

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SeqID 433

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SeqID 434

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SeqID 435

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## SeqID 437

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## SeqID 445

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## SeqID 447

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## SeqID 449

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## SeqID 450

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## SeqID 451

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## SeqID 452

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## SeqID 453

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## SeqID 454

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## SeqID 455

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## SeqID 456

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## SeqID 457

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## SeqID 458

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## SeqID 459

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## SeqID 460

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## SeqID 471

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## SeqID 472

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## SeqID 473

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## SeqID 474

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## SeqID 475

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## SeqID 476

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## SeqID 477

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## SeqID 478

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## SeqID 479

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## SeqID 480

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## SeqID 481

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## SeqID 482

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## SeqID 483

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 INLTDNLQKLYDVYYRVHVDIGWMAWAKNGAYAGTLGMSKRLEAYEVKFTLKGQSVLTPTILKEERPVLNYQVKVG  
 QNGWQSNKLEGQMAGTLGESKALDGVKFTLSTLKYGDILYRTHVQDKGWGEILGSQTSKDYQGXRLAQLDLSGNL  
 KQNYDIYYRAHVQDKGMAWQKNSVAGTVGESKRLEALEVKLVAKASDFSSQTNHSPLEMKHPGLSYQTYLQKDGW  
 KPTVLEGQLGGSIGLSKSIKAIKLNLGSTALGNIEYRTFLNGSGWQTVVNSGRESNVPNESQQVEAIQMLRTGLLSK  
 TYSVMYRVHMQDYGWQDWTYNNDIAGSTNQGKRIEAEIKLVETAKIPITVQTTYKGTGNYNVNVTVNISPGLKIA  
 IWSDKNNQDDLKWYTVTPKNHEARLTFNVTNHRDNGKYFIHVYQENASNQKQLLVKTSLQVAHSNNTPFYFSQORDGR  
 WASRRYGMATLGETGCVPTSLAMILSSLKGETVLPTQIADYLYHKTVEFNRGVQGTTSRGILKAAKEWGVATATLGT  
 QANLVQALKDGYHVLAAVQNNVFLHGSHEIVLKGYNNGLTHVSDPYTPSLSGWYPIISQLWKEQSYSEDRIDIGEP  
 FVKVTD

## SeqID 484

MARIPYQKTLIFCVAVIIAIFILGLSKDLAQSKGQKVANNNTVKTARVVANGDILLHDVLYASARQPDGTYNFTPYF  
 KEVKSWIESADLAIGDYEGTISSEYPLAGYPLFNAPNEIATMTKETGYDVVDLAHNHILDSQLAGAINTVKTFNRMG  
 LDTIGVYLKDRNKEDILIKRVNGIKIAILGYSYGYNGMEANVSKSDYEKMSDLDTKKIKQDIKAEKEADITIVMP  
 QMGIEYQKKPTTEQVMLYHSMIKWGADIIIFGGHPHVVEPSEVIKKGQKKFIISMGNFISNQRLTVDIWTGERL  
 LMDVTIEKKGQKTVIKVKAHPTLVEAKANGRYVEEGFPAYDYRTLVLLEDYIEGKKRSTIDQTMKOKVDKAYKEMN  
 ELVNLKW

## SeqID 485

MKHFFDYKTMVARKLSISFIAVILLGSILLSLPIFOYANAPKTHYIDHLFTTVSMVCVTGLSVFPISKVYNGWGQI  
 VAILLMQTGGLGLVTILMSLSYYTLRRKMSLNDQTLQLSAITYNSSQDLKKYLYMIFKVTLTLEVLAAASILADFI  
 FGLGHGIFNSIFLAVSAFCNAGFDNLGATSLAQFKLNPLVNIIVCFLLIISGGLGFAVWKDLEATIQTSHKGPKLK  
 TFPKRLSNHSLVLKTTTIIILLTGTLSSWLLFEGNFRTIANLSLPKQLMVSFFQTVMTRTAGFSTIDYTTQTD  
 FATNLVYIIQMLIGGAPGGTAGGFKVTVIAIILLLFKAELSGQSQVTFHYRTIPSSIQKTLTILTTFFFIILISGYL  
 LLLLELNPIDPFSLFEEASSALATVGVTMTNTNQLSLGGRIVIMFLMFIGRVGPITVLLSILQKKEKEIHYAETEILG

## SeqID 486

MLDELKAIKSPKLWITMAGVALIPTLYNVIFLSSMWDPYGNKTNLPVAVVNQDKSAKLNKGTISIGKDMEDNLSKN  
 DSLDFHFTTAKRAEKELEKGHYIMVITFPKDLRSKATTLMTKEPERLNITYKTTKGRSFVASKMSETAANKLKDEVA  
 ESITGTYTESVFKNMGSMKTCINKAADGSQELLNGSNKLQDGSQTLTSLNDVLASSSQTFSGGANKLNSGINLYTDG  
 VGTLSNGLTSLSDGVTAYTTGVHKLSEGSQKLDDKSQALVEGSEKLTDLGLQQLSQATQLKPEQERTLQNLSDGLKNL  
 NQIITNLQSTATTDSDTNSKLFNFLTSTIESSTKALMNTAAADKQKQMTAVQSTSAFKSLTPEQQSQITSAVTGTPTS  
 AETIAANISSNIENMKTVLSEASSAPSNNGSQNLQTLSTGANNLVKAISSDLDKIQKLPATKQLYQGSQTLTKGI  
 TDYTNAGQLRKGAVTLDKSNQLISGTQKASQGAQTLDSKSDQLRDGAGQLASGSDRIADGSNKLAGGQHOLIDGL  
 TELSGGVSQLSLSSLGKAGDQLSMVSVNKDANANAVSPVTIKHEDYDSVDTNGVGMAPYMISVALMVVALSANVIFAK  
 ALSGKEPANRFSWAKNKLINGFIATLAATILFFAVQFIGLKPDPYKTYFIILLTAWTLMALVTALVGWDNRYSF  
 LSLILLFQLGSSAGTYPIELSPKFFQTIQFPLPMTYSVSGLRETISLTGVDVNHQWRMLVIFLVSSMILALLIYRKO  
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